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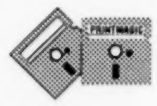

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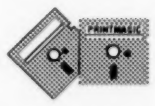

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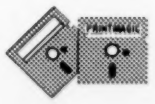

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Introduction

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Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the Publication Schedule, which can be found in the preliminaries of this Index.

Readers should note that American spelling is used throughout the Subject Index.

Authors of review articles are quoted in the Author Index. BBA reviews published in the special review sections (Biomembranes and Cancer) are not included in the key-word system, but cumulative contents are to be found at the end of the Subject Index. A list of reviews published in the regular sections of BBA is also presented for the convenience of readers; such reviews are included in the key-word system.

The Editors and Publishers welcome any comments on the usefulness of this Index, together with suggestions for improvements.

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Amplification; Kinetics; Phototransduction; cyclic GMP cascade (Pugh, Jr., E.N. (1141) 111)

Active center
α-Amylase; Isozyme purification; Subsite structure; Energetic profile; (Barley malt) (Ajandouz, E.H. (1159) 193)

Active oxygen
Osteoclast; Differentiation; Bone resorption (Suda, N. (1157) 318)

Active site
Mitochondrion; Respiratory chain; Cytochrome c_1; Heme; Resonance Raman; (*R. sphaeroides*) (Lou, B.-S. (1144) 403)

Renal dipeptidase; Site-directed mutagenesis; Chemical modification (Adachi, H. (1163) 42)

Papain; Substrate protection; Protein denaturation; Protein conformation; Protein unfolding (Xiao, J. (1164) 54)

Active transport
Nucleoside transport; Nitrobenzylthioinosine; Renal epithelium; (OK cell) (Doherty, A.J. (1147) 214)

Acute liver damage
Liver fibrosis; Carbon tetrachloride model; Fibronectin, ED-A positive; In situ hybridization; mRNA (Odenthal, M. (1181) 266)

Acute phase
Pentraxin; C-reactive protein; P-component; Amyloid; Inflammation (Swanson, S.J. (1160) 309)

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Serum amyloid P; Interleukin 1; Interleukin 6 (Zahedi, K. (1176) 162)

2-Acylamino phospholipid
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Acylation
γ-Linolenic acid; Δ^6-Desaturase; Seed; Membrane; *Borago officinalis* (Galle, A.M. (1158) 52)

Acylcarnitine
Acyl-CoA; Carnitine palmitoyltransferase I; Malonyl-CoA; Mitochondrial β-oxidation; 3-Thia fatty acid; Beta oxidation (Skrede, S. (1167) 189)

Acyl carrier protein
FTIR; Protein structure; Secondary structure; Protein solution structure (Ernst-Fonberg, M.L. (1164) 273)

Acyl-CoA
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Acylcarnitine; Carnitine palmitoyltransferase I; Malonyl-CoA; Mitochondrial β-oxidation; 3-Thia fatty acid; Beta oxidation (Skrede, S. (1167) 189)

Acyl-CoA elongase; Icosanoyl-CoA synthase; Very-long-chain fatty acid; Lipid; Membrane (Lessire, R. (1169) 243)

Acyl-CoA binding protein
Peroxisome proliferator; Hepatocyte; Fatty acid binding protein (Vanden Heuvel, J.P. (1177) 183)

Acyl-CoA:cholesterol acyltransferase
3-Hydroxy-3-methylglutaryl-CoA reductase; Cholesterol metabolism; Acclimation temperature; (Carp liver) (Teichert, T. (1165) 211)

Mevinolin; HMG-CoA reductase inhibitor; Cholesterol; LDL; (Caco-2 cell) (Fellermann, K. (1165) 78)

Acyl-CoA 5-desaturase
Liver microsome; Acyl-CoA 6-desaturase; Unsaturated fatty acid; Biosynthesis (Geiger, M. (1170) 137)

Acyl-CoA 6-desaturase
Liver microsome; Acyl-CoA 5-desaturase; Unsaturated fatty acid; Biosynthesis (Geiger, M. (1170) 137)

Acyl-CoA elongase
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Icosanoyl-CoA synthase; Very-long-chain fatty acid; Acyl-CoA; Lipid; Membrane (Lessire, R. (1169) 243)

Acyl-CoA oxidase
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***N*-Acylethanolamine**
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***N*-Acylethanolamine lipid**
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***N*-Acylethanolamine–membrane interaction**
N-Acylethanolamine lipid; Fast sodium ion channel; (Neuroblastoma C1300 N18) (Gulaya, N.M. (1152) 280)

***N*-Acylethanolamine phospholipid**
Liposome permeability; Model membrane; Osmotic response; Phosphatidylcholine; Cholesterol (Domingo, J.C. (1148) 308)

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Acylphosphatase
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Acylphosphatidylglycerol
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Acyl remodeling
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Acyltransferase
Acylphosphatidylglycerol; Bis(monoacylglycero)phosphate; Lysosome; Phospholipase A_1 (Huterer, S.J. (1167) 204)

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Adaptation mechanism
Photosynthesis; Protein phosphorylation; Chlororespiration; Light-harvesting protein; State transition (Harrison, M.A. (1141) 37)

Adenine nucleotide
Creatine kinase; Pyruvate kinase; Compartmentation; Intermembrane space; (Rat heart mitochondrion) (Gellerich, F.N. (1140) 327)

Hypoxanthine recovery; Uric acid; Reperfusion; Aging (Finelli, C. (1180) 262)

Adenine nucleotide translocase
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Adenine nucleotide translocator
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Adenocarcinoma
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Adenosine
fMLP; Adherence; Superoxide anion; Signal transduction; G protein (Burkey, T.H. (1175) 312)

Adenosine deaminase
Transition state; Binding discrimination; Ligand binding (Grosshans, J. (1161) 28)

Adenosine deaminase deficiency
Severe combined immunodeficiency disease; Deoxyadenosine toxicity; Human T-lymphoblast; Cell swelling; Cytoskeleton; (CCRF-CEM cell) (Bagnara, A.S. (1180) 163)

Adenosine receptor
Receptor desensitization; Receptor phosphorylation; Receptor kinase, β-adrenergic (Ramkumar, V. (1179) 89)

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Adenosine receptor, A_1
Antibody; Glycosylation; Immunoprecipitation; (Rat brain) (Nakata, H. (1177) 93)

Adenosine triphosphate
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***S*-Adenosylhomocysteine hydrolase**
Protein purification; Immunology; Thermophile; Secondary structure; (*S. solfataricus*) (Porcelli, M. (1164) 179)

S-Adenosylmethionine
S-Adenosylmethionine synthetase; Polyamine metabolism; Methionine analog; (*T. brucei*) (Yarlett, N. (1181) 68)

S-Adenosylmethionine synthetase
S-Adenosylmethionine; Polyamine metabolism; Methionine analog; (*T. brucei*) (Yarlett, N. (1181) 68)

S-Adenosylmethionine synthetase regulation
Epicotyl; Gibberellic acid; Enzyme synthesis, de novo; Isozyme; Molecular hybridization; (Dwarf pea) (Mathur, M. (1162) 283)

Adenylate cyclase
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cyclic AMP; Glucose; Catabolite repression; (*A. viscosus*) (Watson, E.L. (1178) 243)

Phenolic compound; Diphenylhexatriene; Platelet; Fluorescence; Membrane fluidity; (Bovine blood) (Kitagawa, S. (1179) 277)

Adenylate deaminase
AMP deaminase; Type-1 muscle; Type-2 muscle; Myoadenylate deaminase deficiency; Isozyme immunochemistry; (Muscle) (Fishbein, W.N. (1163) 97)

Adenylate kinase
Mitochondrion; Dextran; Porin; Compartmentation; Intermembrane space (Gellerich, F.N. (1142) 217)

Thermal denaturation; Protein unfolding; Protein refolding; Inactivation; Reactivation (Zhang, Y.-L. (1164) 61)

Adenylate kinase homolog
Gene disruption; (Yeast) (Konrad, M. (1172) 12)

2′,5′-Adenylate synthetase
Poly(A)·poly(U) binding; Macrophage cell line (Marin, J.G. (1178) 103)

Adenylyl cyclase
Hypersensitivity; G protein; Protein kinase C; (Lung); (Guinea pig) (Grady, M. (1176) 313)

Adenylyl cyclase complex
α_2-Adrenergic receptor; cyclic AMP; (Fibroblast) (Jansson, C. (1145) 311)

ADH
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Adherence
fMLP; Adenosine; Superoxide anion; Signal transduction; G protein (Burkey, T.H. (1175) 312)

Adhesion
Asbestos; Mesothelioma; Cell; Cell surface thermodynamics; Contact angle (Lee, M.M. (1181) 223)

Adhesion molecule
LFA-1; ICAM-1; Osteoclast; Development (Kurachi, T. (1178) 259)

Adhesive protein
Bindin; Phospholipid; Liposome; Recombinant protein; Sperm (Miraglia, S.J. (1145) 191)

Adipocyte
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Adipocyte, 3T3-L1
Insulin signaling; Insulin receptor substrate 1 (Keller, S.R. (1172) 323)

Adipogenic activity
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Adipose differentiation
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Adipose tissue
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Triiodothyronine; Lipoprotein lipase; Food restriction (Cruz, M.L. (1168) 205)

ADP
Cardiomyocyte; Mitochondrion; Compartmentation; Creatine kinase; Oxidative phosphorylation (Saks, V.A. (1144) 134)

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ADP/ATP carrier
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ADP-ribose-acceptor adduct
ADP-ribosyltransferase; Acceptor protein (Taniguchi, M. (1161) 265)

ADP-ribose transport
NAD glycohydrolase; ADP-ribose uptake; Ectoenzyme; (Human); (Erythrocyte) (Kim, U.-H. (1178) 121)

ADP-ribose uptake
NAD glycohydrolase; ADP-ribose transport; Ectoenzyme; (Human); (Erythrocyte) (Kim, U.-H. (1178) 121)

ADP-ribosylation
Vaccinia virus; Posttranslational modification; Metabolic inhibitor (Child, S.J. (1157) 217)

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ADP-ribosyl cyclase
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ADP-ribosyltransferase
ADP-ribose-acceptor adduct; Acceptor protein (Taniguchi, M. (1161) 265)

Poly(ADP-ribose) synthetase; Transferase assay (Doi, S. (1162) 115)

cyclic ADP-ribose
Second messenger; Calcium mobilization; ADP-ribosyl cyclase; cyclic ADP-ribose hydrolase (Lee, H.C. (1164) 68)

8-Amino-cyclic ADP-ribose; Calcium ion mobilization; Microsome; Calcium ion release antagonist; (Sea urchin egg); (*S. purpuratus*) (Walseth, T.F. (1178) 235)

cyclic ADP-ribose hydrolase
cyclic ADP-ribose; Second messenger; Calcium mobilization; ADP-ribosyl cyclase (Lee, H.C. (1164) 68)

ADR
Muscle; Myotonia; Fatty acid; Sarcolemma; Sarcoplasmic reticulum (Birkle, D.L. (1146) 236)

Adrenaline
See also Epinephrine

Adrenaline
Galanin; Membrane potential; Insulin release; (Pancreatic B-cell) (Drews, G. (1175) 214)

Adrenal medulla
Catecholamine secretion; Intracellular calcium ion; Calcium ion, intracellular; Potassium ion channel (González-García, C. (1177) 99)

Adrenergic receptor
Apamin; Toxin; Biotin-avidin; NMR; Calcium-activated K^+ channel (Shahidi, S. (1157) 74)

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α_1-Adrenergic receptor
Phorbol ester; G protein; Receptor desensitization; Hepatocyte; (Rat) (Beeler, J.F. (1176) 339)

α_2-Adrenergic receptor
Adenylyl cyclase complex; cyclic AMP; (Fibroblast) (Jansson, C. (1145) 311)

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β-Adrenergic receptor
DNA sequence; cyclic-AMP-dependent protein kinase; (Mouse) (Jasper, J.R. (1178) 307)

β_1-Adrenergic receptor gene
Transcription regulation; PCR sequencing (Collins, S. (1172) 171)

β_2-Adrenergic receptor
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Adrenoceptor
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α_2-Adrenoceptor
Murine genomic clone (Chen, W.-M. (1171) 219)

β-Adrenoceptor subtype
Endothelial cell; Permeability regulation; Catecholamine; Sympathomimetics (Zink, S. (1178) 286)

β-2-Adrenoceptor
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Adriamycin
Anthracycline; Cardiotoxicity; Cardiolipin; LUV; Membrane potential (Praet, M. (1148) 342)

Adriamycin derivative; Daunorubicin; Anthracycline; Cardiotoxicity; Free radical; (Mouse) (Praet, M. (1149) 79)

Adriamycin derivative
Adriamycin; Daunorubicin; Anthracycline; Cardiotoxicity; Free radical; (Mouse) (Praet, M. (1149) 79)

Adsorption
Bilayer lipid membrane; Mechanical breakdown; Membrane disruption; Electrical breakdown, irreversible; Kinetics (Klotz, K.-H. (1147) 161)

Creatine kinase binding; Mitochondrial membrane; Binding model; Ionic strength; Essential amino acid (Fedosov, S.N. (1153) 322)

Phospholipid; Monolayer; Surface film; Compression; Squeeze-out; Stability; Surface tension (Yu, S.-H. (1167) 264)

Aequorin
Cytosolic free calcium; Sodium ion, intracellular; Magnesium ion, intracellular; LDH; Phosphorylation potential (Gasbarrini, A. (1178) 9)

Aerobic–anaerobic transition
Complex II; Respiratory chain; (*Ascaris* mitochondria) (Takamiya, S. (1141) 65)

Affinity chromatography
Anion exchange; Proximal tubule; Membrane reconstitution (Soleimani, M. (1149) 127)

Rabbit serum lectin; Synthetic oligosaccharides; Hemagglutination reaction (Hosomi, O. (1157) 45)

Affinity labeling
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Cytochrome $P\text{-}450_{11\beta}$; *P*-450XIB1; Steroid; 11β-Hydroxylase; Substrate binding; Methyltrienolone (Ohnishi, T. (1161) 257)

Placenta ribosome; Oligoribonucleotide derivative; Initiation complex; (Human) (Mundus, D.A. (1173) 273)

Agarose
Liposome; Dipalmitoylphosphatidylcholine; Galactose; Laurdan; Fiberoptic sensor; DSC (Abrams, S.B. (1146) 127)

Age
ATPase/ATPsynthase; Almitrine; Oxidative phosphorylation; Lipid composition; (Rat liver mitochondrion) (Jumelle-Laclau, M. (1141) 90)

Flavin-containing monooxygenase; *N*,*N*-Dimethylaniline *N*-oxidase; Immunoblot; Western transfer; Sex; Trimethylamine (Schlenk, D. (1156) 103)

Aggrecan
Proteoglycan aggregates; Mineralization; Hydroxyapatite growth (Paschalakis, P. (1158) 129)

Cartilage; Proteinase; Proteoglycan; Substrate specificity (Cs.-Szabó, G. (1162) 266)

Aggregation
Platelet membrane; Primary bile salt; Optical absorbance; Leakage; Component solubility; Electron microscopy; (Human blood) (Shiao, Y.-J. (1146) 282)

Polyene antifungal antibiotic; NMR, ^{1}H-; Circular dichroism; Amphotericin B (Balakrishnan, A.R. (1148) 269)

Free fatty acid; PAF; (Rabbit platelet) (Siafaka-Kapadai, A. (1166) 217)

Calphostatin C; Protein kinase C inhibitor; Phospholipase A_2; Neutrophil activation; PAF (Svetlov, S. (1177) 75)

MCAD deficiency; GroE; Chaperonin; Folding; Oligomer assembly (Bross, P. (1182) 264)

Aging
($n-3$) Fatty acid; ($n-6$) Fatty acid; Deformability; Fish oil; Safflower oil; (Erythrocyte) (Mills, D.E. (1149) 313)

Lens protein; Mixed disulfide; γ-Glutamylcysteine; Cataract; Glutathione (Dickerson, Jr., J.E. (1157) 141)

Glycation; Non-enzymatic glycosylation; Lens; Crystallin (Van Boekel, M.A.M. (1159) 99)

Quinone; Quinone-copper complex; Protein modification; Amine oxidation; Lysyl oxidase (Shah, M.A. (1159) 311)

Protein conformation; Raman spectroscopy; Lens; (Human); (Eye) (Smeets, M.H. (1164) 236)

Macrophage; Respiratory burst; Immune function; (Rat) (Alvarez, E. (1179) 247)

Mitochondrion; mtDNA; Respiratory chain; Kearns-Sayre syndrome; Common deletion (Simonetti, S. (1180) 113)

Hypoxanthine recovery; Uric acid; Adenine nucleotide; Reperfusion (Finelli, C. (1180) 262)

Fibroblast; Secreted protein; Interferon γ (Eleftheriou, C.S. (1180) 304)

AIDS
Membrane; NMR, ^{31}P-; Magnetic orientation; Liposome; Phosphatidylcholine; HIV (Qiu, X. (1147) 59)

Kaposi sarcoma; Arachidonic acid metabolism; Epoxyicosatrienoic acid (Dray, F. (1180) 83)

Purine nucleotide; Lymphocyte; HIV-1 (Tabucchi, A. (1182) 317)

Air/water interface
Catalase; Poly(1-benzyl-L-histidine); Two-dimensional crystal; Monolayer; Annealing (Sato, A. (1162) 54)

Alamethicin
ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; Brain microsome; Platelet; Sarcoplasmic reticulum; Proteoliposome; Bilayer lipid membrane (Ritov, V.B. (1148) 257)

Alanine
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Metabolism; Hepatocyte; Model (Martin, G. (1175) 161)

β-Alanine
Transport; Facilitated transport; GABA; Taurine; Sodium; Baclofen; (Rat) (Polache, A. (1147) 267)

Albumin
α-Fetoprotein; Receptor; Lymphoid cell; Membrane protein; Glycoprotein; Albumin binding protein (Torres, J.-M. (1159) 60)

LDL; Oxidation; Antioxidant; (Human) (Dobrian, A. (1169) 12)

Short-term glycation; Receptor; Peritoneal cell (Krantz, S. (1177) 15)

Albumin binding protein
α-Fetoprotein; Albumin; Receptor; Lymphoid cell; Membrane protein; Glycoprotein (Torres, J.-M. (1159) 60)

Alcohol
Cardiomyopathy; ATP synthase; Mitochondrion; Regulation; (Heart) (Das, A.M. (1181) 295)

Alcohol dehydrogenase
ADH; Glucose repression; (*Kluyveromyces*) (Ladrière, J.-M. (1173) 99)

Aldose reductase
Reactive residue; Enzyme modification (Liu, S.-Q. (1164) 268)

Hypertonic stress; Cell adaptation; (EUE cell) (Ferraretto, A. (1175) 283)

Aldosterone release
Arginine vasotocin; Hydrin; Arginine vasotocin-related peptide; (*Xenopus*) (Iwamuro, S. (1176) 143)

Alga
Furan fatty acid; Furan biosynthesis of fatty acid; (*n*–4)Hexadecadienoic acid; Lipoxygenase; (*Isochrysis* sp.); (*P. tricornutum*) (Batna, A. (1166) 171)

Alginate synthesis gene
Plasmid; DNA sequence; (*R. rubrum*) (Ideguchi, T. (1172) 329)

Alkali cation transport kinetics
Cryptand; Nonactin; Temperature jump; Mobile carrier, ionizable and neutral; Transport kinetics; Membrane structure (Vareille, G. (1146) 25)

Alkaline earth ion
fMet-Leu-Phe; Ionophore A23187; Responsiveness (Boonen, G.J.J.C. (1175) 155)

Alkaline phosphatase
Immunoliposome; Drug targeting; Methotrexate; Placental alkaline phosphatase; Antibody; Tumor cell A431 (Jones, M.N. (1152) 231)

Glycan phosphatidylinositol-specific phospholipase D; Glycan phosphatidylinositol-specific phospholipase C; Aqueous phase system; Partitioning (Raymond, F.D. (1156) 117)

High-pressure infrared spectroscopy; Enzyme kinetics; Hyperbaric manipulation (Wong, P.T.T. (1159) 237)

Enzyme amplification; Kinetics; Mathematical modeling (Harbron, S. (1161) 311)

Homeostasis; Inositol homeostasis; Acid phosphatase; *myo*-Inositol-1-phosphatase; 5′-Nucleotidase; Kinetic mechanism; Lithium inhibition; Lithium transport (Gani, D. (1177) 253)

Butyrate; Enzyme induction; (Cultured colon cancer cell) (Herz, F. (1180) 289)

Alkalotolerant bacterium
Terminal oxidase; Oxidase; Cytochrome *a*; Cytochrome *o*; (*Bacillus FTU*) (Muntyan, M.S. (1143) 142)

Alkenylacyl phosphatidylethanolamine
Sodium/potassium ion cotransport; Sodium/potassium ion pump kinetics; Lipoprotein; Triacylglycerol-rich lipoprotein, elevated level; Hypercholesterolemia (Duhm, J. (1149) 185)

Alkylamine
Exocytosis; G protein; Mastoparan; (Mast cell); (Rat) (Fischer, T. (1176) 305)

Alkyl dihydroxyacetone phosphate synthase
Ether lipid synthesis; Enzyme purification; Peroxisome; (Guinea-pig liver) (Zomer, A.W.M. (1170) 189)

Alkyllysoglycerophosphocholine
Transacylase; Membrane; (Porcine aorta) (Jansen, G.J. (1145) 113)

Alkylthio-*O*-acid ester
Sulfolipid; Alkylthio *S*-acid; (*Synechococcus* sp.); (Cyanobacterium) (Kaya, K. (1169) 39)

Alkylthio *S*-acid
Sulfolipid; Alkylthio-*O*-acid ester; (*Synechococcus* sp.); (Cyanobacterium) (Kaya, K. (1169) 39)

Allele-specific expression
Insulin receptor gene; NIDDM (Imano, E. (1181) 131)

Allergen
Molecular cloning; Characterization; IgE; (*Myrmecia pilosula*) (Donovan, G.R. (1171) 272)

Allergen challenge
Passive sensitization; Icosanoid; Membrane phospholipid; Peritoneal macrophage; (Rat) (M'Rini-Puel, C. (1167) 165)

Allosteric effector
Hemoglobin; Temperature effect; EPR; Absorbance; (*C. caretta*); (Sea turtle) (Giardina, B. (1159) 129)

Allosteric inhibition
Hemagglutinin; Neuraminidase; Sendai virus (Bellini, T. (1161) 323)

Allosteric model
Hb Dallas; Abnormal hemoglobin; Hemoglobin (Lendaro, E. (1180) 15)

Allosteric regulation
Human deoxycytidylate deaminase; Transition state analog; Inhibition (Maley, G.F. (1162) 161)

Allosteric transition
Hb function; Protein engineering; Oxygen carrier (Baudin, V. (1159) 223)

Allotopic expression
ATP synthase assembly; Mitochondrion; Mitochondrial import; Site-directed mutagenesis; Duplicated targeting sequence; (Yeast) (Papakonstantinou, T. (1144) 22)

Allylisopropylacetamide
Cytochrome *P*-450; Apohemoprotein; (Rabbit liver microsome) (Golly, I. (1142) 74)

Almitrine
ATPase/ATPsynthase; Oxidative phosphorylation; Lipid composition; Age; (Rat liver mitochondrion) (Jumelle-Laclau, M. (1141) 90)

Alpha-1 acid glycoprotein
Serum amyloid A; Heavy metal; Gene regulation (Yiangou, M. (1174) 123)

Gene assignment; Lipocalin; Sequence homology; Gene sequence; (Rodent) (Chan, P. (1174) 195)

Alpha helix
α-Helical periodicity; Fourier transform; Hydropathy analysis; ATP synthase, F_1F_0-; Proton channel (Vik, S.B. (1140) 199)

Conformational transition; Lipid–peptide interaction; Beta structure; Ion channel forming peptide; Liposome (Lee, S. (1151) 76)

Synthetic peptide; Amphipathic α-helix; Liposome; Membrane fusion (Murata, M. (1152) 99)

Electron transfer; Long range electron transfer; Pulse radiolysis; Circular dichroism; Leucine zipper peptide (Lee, H. (1159) 286)

Calmodulin; Protein crystallization (Bayley, P.M. (1160) 16)

Membrane fusion; Amphiphilic polypeptide; pH-dependence; Acidic amino acid; Hydrophobicity (Kono, K. (1164) 81)

Alpha-oxidation
Phytanic acid; Peroxisome; Peroxisomal disorder; Zellweger syndrome (Wanders, R.J.A. (1167) 345)

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Alpha subunit
ATPase, Na^+/K^+-; Beta subunit; Isoform; cDNA sequence (Lemas, M.V. (1149) 339)

ATP synthase, F_0F_1-; Mitochondrion; Nuclear gene; Promoter region (Jordan, E.M. (1173) 115)

Alternating site
ATP synthase; Oxidative photophosphorylation; Photophosphorylation; Binding change; Catalytic cooperativity (Boyer, P.D. (1140) 215)

Alternative oxidase
Cyanide-resistant respiration; Mitochondrion; Ubiquinone pool (Q-pool); Electron transfer; (Plant) (Siedow, J.N. (1142) 165)

Alternative pathway
Yeast; Mitochondrion; Cytochrome *c*; (*C. parapsilosis*) (Camougrand, N. (1143) 135)

Alternative splicing
Cellular senescence; Endothelial cell; Fibronectin; (Human) (Pagani, F. (1173) 172)

Peptide YY; cDNA; Gene structure; Nucleotide sequence; (Human) (Kohri, K. (1173) 345)

***Alu* family**
DNA replication; Transcription (Saëgusa, Y. (1172) 274)

Aluminium ion effect
Lipid peroxidation; Lecithin liposome; Liposomal aggregation; Liposome; (Egg yolk) (Ohyashiki, T. (1170) 182)

Aluminum
Sodium ion efflux; Dipotassium hydrogen phosphate; (Barnacle fiber) (Bittar, E.E. (1148) 123)

Supercoiled DNA (Jagannatha Rao, K.S. (1172) 17)

Histone H1; Non-enzymatic glycation; Nucleotide binding; Transcriptional regulation; (Rat) (Tarkka, T. (1180) 294)

Alu sequence
Cholesterol 7α hydroxylase; Cyclophilin (Thompson, J.F. (1168) 239)

Alzheimer's disease
Neuron-specific enolase; Amyloid; Monoclonal antibody; Epitope mapping (Harrington, C.R. (1158) 120)

Neurofibrillary tangle; PHF-tau (A68); Microtubule-associated protein tau; Tau protein; Phosphorylation (Brion, J.-P. (1160) 134)

Amyloid protein precursor; Transfected cell; Protein phosphorylation (Demaerschalck, I. (1181) 214)

Amyloid formation; Amyloid plaque; Calcitonin (Gilchrist, P.J. (1182) 111)

Amantadine free base
Amantadine hydrochloride; Phospholipid multilayer; X-ray diffraction; NMR, ^2H- (Duff, K.C. (1145) 149)

Amantadine hydrochloride
Amantadine free base; Phospholipid multilayer; X-ray diffraction; NMR, ^2H- (Duff, K.C. (1145) 149)

Amide band
Ganglioside GM1; Phosphatidylcholine; FTIR (Mueller, E. (1146) 45)

Amiloride
Plasma membrane; ATPase, H^+-; 5-(*N*-Ethyl-*N*-isopropyl)amiloride; Glucose transport; (*S. pombe*) (Haworth, R.S. (1145) 266)

Amiloride derivative
Structure–activity relation; Antagonist; Cation binding; ATPase, Na^+/K^+- (David, P. (1146) 59)

Sodium–hydrogen ion exchange; Lithium–hydrogen ion exchange; Intracellular pH; Thrombin activation; (Platelet) (Gende, O.A. (1152) 219)

Amine oxidation
Quinone; Quinone-copper complex; Protein modification; Aging; Lysyl oxidase (Shah, M.A. (1159) 311)

Amino acid
Thioredoxin; Protein folding; Selective deuteration; NMR, ^1H- (Wishart, D.S. (1164) 36)

Skeletal muscle; Sarcolemmal exchange; Hindlimb (Hundal, H.S. (1180) 137)

Amino acid deficiency
Protein synthesis; Precursor; Cell growth; Cell culture; (HeLa cell) (Wheatley, D.N. (1164) 209)

Amino acid dehydrogenase
Valine dehydrogenase; Leucine dehydrogenase; (*A. faecalis*) (Ohshima, T. (1162) 221)

Amino acid sequence
Cytochrome *b*; Ubiquinone; Respiration inhibition; Mitochondrial DNA sequence; DNA; Molecular evolution (Degli Esposti, M. (1143) 243)

Aminopeptidase N; Crosslinking; Brush-border membrane vesicle; (Bovine kidney) (Plakidou-Dymock, S. (1145) 105)

Heat-shock protein; Protein isolation; Cellular distribution; (*N. crassa*) (Vassilev, A.O. (1156) 1)

Jacalin; Proteolysis (Ngoc, L.D. (1156) 219)

Potassium channel toxin; Biological activity; (Sea anemone) (Aneiros, A. (1157) 86)

Hageman factor; cDNA; Kallikrein-kinin system; (Guinea-pig) (Semba, U. (1159) 113)

Nerve growth factor; Snake venom; (*V. r. russelli*) (Koyama, J.-i. (1160) 287)

α-Lactalbumin; Lysozyme; Galactosyltransferase; Monotreme; Post-translational modification (Shaw, D.C. (1161) 177)

Textilotoxin; Subunit; Neurotoxin; Phospholipase A_2; (*P. textilis*) (Pearson, J.A. (1161) 223)

Glutathione *S*-transferase; Subunit; (Human) (Ahmad, H. (1161) 333)

Myoglobin; Dimeric myoglobin; Cooperativity; (*N. mutabilis*) (Parente, A. (1162) 1)

Rusticyanin; Copper protein; Secondary structure prediction; Blue copper protein; (*T. ferrooxidans*) (Nunzi, F. (1162) 28)

Protein purification; Gene cloning; Serine proteinase; Substrate specificity; (*S. fradiae*) (Kitadokoro, K. (1163) 149)

Purification; DNA cloning; Renal dipeptidase; Expression; Northern blotting; (Mouse) (Satoh, S. (1163) 234)

Nucleotide binding sequence; Chaperonin; (Rat) (Hartman, D.J. (1164) 219)

Lipase; Carboxylesterase; Bile salt; Substrate specificity; Enzyme kinetics (Wang, C.-S. (1166) 1)

Mitochondrion; Cloning; Liver; (Rat) (Van Schaik, R.H.N. (1169) 1)

Fatty acid binding protein; Brown adipose tissue; Arachidonic acid; (Rat) (Dutta-Roy, A.K. (1169) 73)

Erythropoietin; Nucleotide sequence; (Rat) (Nagao, M. (1171) 99)

Protein phosphatase; cDNA sequence; Evolution; (Human) (Brewis, N.D. (1171) 231)

Gene structure; Phenylalanine ammonia-lyase (Minami, E. (1171) 321)

Hemoglobin; cDNA cloning; (*T. thermophila*); (*T. pyriformis*) (Takagi, T. (1173) 75)

Aminoacylase; cDNA sequence; Small cell lung cancer; Nucleotide sequence; (Human) (Mitta, M. (1174) 201)

Fibromodulin gene; Gene structure; cDNA; (Human) (Antonsson, P. (1174) 204)

Ferritin; recombinant DNA; (Horse) (Takeda, S. (1174) 218)

Calcineurin; cDNA sequence; (Human) (Muramatsu, T. (1178) 117)

Protein phosphatase; cDNA sequence; Isoform; Chromosomal localization; (Human) (Barker, H.M. (1178) 228)

Amyloid A protein; Serum amyloid A protein; Rheumatoid arthritis; Mass spectrometry (Baba, S. (1180) 195)

Amino acid sequence homology
Nuclear envelope; Lamin A; Nucleotide sequence (Nakajima, N. (1171) 311)

Amino acid sequencing
Elastase; α_1-Proteinase inhibitor; Peptide bond cleavage; Enzyme kinetics; (*P. aegurinosa*) (Padrines, M. (1163) 61)

Amino acid substitution
Glycogen phosphorylase; Isozyme; Carbohydrate metabolism (Hudson, J.W. (1164) 197)

Serum albumin; Low level variant; Protein electrophoresis, two-dimensional; Disulfide bridge (Brennan, S.O. (1182) 46)

Hexosaminidase; Sandhoff disease; Genetic compound (Bolhuis, P.A. (1182) 142)

Amino acid transport
Membrane transport; Choline transport; Preimplantation conceptus; (Preimplantation embryo) (Van Winkle, L.J. (1146) 38)

Insect; Lepidoptera; Potassium; Symport; Cotransport; Cation dependence (Hennigan, B.B. (1148) 209)

Insect; Lepidoptera; Midgut; Cotransport; Potassium (Hennigan, B.B. (1148) 216)

Proliferation; Oncogene; L-Aspartate; L-Glutamate; (Fibroblast) (Bussolati, O. (1151) 153)

Amino acid transporter
Small intestine; Reconstitution; Proteoliposome; (Rabbit) (Nakanishi, M. (1151) 193)

Aminoacylase
cDNA sequence; Small cell lung cancer; Nucleotide sequence; Amino acid sequence; (Human) (Mitta, M. (1174) 201)

8-Amino-cyclic ADP-ribose
cyclic ADP-ribose; Calcium ion mobilization; Microsome; Calcium ion release antagonist; (Sea urchin egg); (*S. purpuratus*) (Walseth, T.F. (1178) 235)

***p*-Aminohippuric acid**
Oocyte; Expression; Organic anion transporter; Probenecid; (*X. laevis*) (Steffgen, J. (1149) 145)

2-Amino-3-ketobutyrate ligase
Threonine metabolism; L-Threonine dehydrogenase; L-Threonine aldolase; Glycine (Marcus, J.P. (1164) 299)

5-Aminolevulinic acid
Porphyria; Reactive oxygen species; Calcium ion homeostasis; Calcium ion; Magnesium ion; Mitochondrial damage; (Rat liver mitochondrion) (Hermes-Lima, M. (1180) 201)

Aminopeptidase M
Hypertensive rat; Renin; Sodium transport; Two-dimensional electrophoresis (Salardi, S. (1182) 22)

Aminopeptidase N
Crosslinking; Amino acid sequence; Brush-border membrane vesicle; (Bovine kidney) (Plakidou-Dymock, S. (1145) 105)

Aminophospholipid translocase
Phosphatidylcholine; Phosphatidylserine; Phosphatidylethanolamine; (Erythrocyte) (Anzai, K. (1151) 69)

Membrane vesiculation; Thrombin; Bilayer balance model; Platelet activation; Phospholipid (Brunauer, L.S. (1152) 109)

Aminophospholipid translocation
Erythrocyte shape; Dithiothreitol (Truong, H.-T.N. (1150) 57)

Aminopyrine accumulation
cyclic AMP; Glucose oxidation; Histamine; Ranitidine; (Rat) (Li, Z.-Q. (1175) 250)

cyclic AMP; Histamine; Phosphodiesterase inhibitor; Ranitidine (Cabero, J.L. (1177) 245)

Amino-terminal-deleted tropomyosin
Tropomyosin; Caldesmon; Cooperativity; Smooth muscle; Fibroblast (Novy, R.E. (1162) 255)

Amino terminal protecting group
Peptide synthesis; α-Chymotrypsin; Partition parameter; Hydrophobicity; Molecular ovality (Calvet, S. (1164) 189)

Amino-terminal sequence
Flavin-containing monooxygenase; Human liver; Purification; Antibody; (Primate) (Sadeque, A.J.M. (1162) 127)

Amino-terminal truncation
Chloroplast NADP-malate dehydrogenase; Redox modification; Regulatory sequence; Limited proteolysis (Yuan, L. (1162) 10)

Chloroplast NADP-malate dehydrogenase; Redox modification; Regulatory sequence; Limited proteolysis (Ocheretina, O. (1163) 10)

Aminotransferase
Protein purification; Protein characterization (Kontani, Y. (1156) 161)

Aminotyrosine
Nitrotyrosine; Nitrotyrosyl ribonuclease A; Nitrotyrosyl lysozyme; Tetranitromethane; NMR, ^{15}N- (Skawinski, W.J. (1162) 297)

Ammonia metabolite
Hyperammonemia; Ammonia toxicity; Energy metabolite (Kosenko, E. (1180) 321)

Ammonia toxicity
Hyperammonemia; Energy metabolite; Ammonia metabolite (Kosenko, E. (1180) 321)

Ammonium sulfate gradient
Liposome; Drug delivery; Remote loading; Doxorubicin; Amphipathic base (Haran, G. (1151) 201)

Ammonium transport
Intracellular pH; pH, intracellular; Potassium ion channel; Proximal tubule; BCECF; (Rat) (Chen, J.-G. (1149) 299)

Amnion
Phospholipase A_2; Chorion; Placenta; Parturition (Aitken, M.A. (1170) 314)

Amnion cell
Phospholipase D; Phosphatidic acid; Diacylglycerol; Signal transduction; (Human) (Mizunuma, M. (1168) 213)

Prostaglandin synthesis; Surfactant; (Human) (Newman, G.E. (1176) 106)

AMP
Magnesium ion; Calcium ion; ATP; ADP; Mitochondrial inhibitor; Glycolytic inhibitor; (Opossum kidney) (Li, H.-y. (1181) 307)

AMP deaminase
Adenylate deaminase; Type-1 muscle; Type-2 muscle; Myoadenylate deaminase deficiency; Isozyme immunochemistry; (Muscle) (Fishbein, W.N. (1163) 97)

Regulatory protein; Chemical modification; Sulfhydryl group; Ligand-induced regulation (Nagel-Starczynowska, G. (1164) 261)

Erythrocyte AMP deaminase; cDNA; Cloning; Sequence (Yamada, Y. (1171) 125)

cyclic AMP
Adenylyl cyclase complex; α_2-Adrenergic receptor; (Fibroblast) (Jansson, C. (1145) 311)

Ascorbic acid; Ciliary epithelium, non-pigmented; Protein kinase C; ATPase, Na^+/K^+-; Membrane transport (Delamere, N.A. (1149) 102)

Plasma membrane; Meiosis; Membrane fluidity; EPR; Photoaffinity labeling; Receptor; (Oocyte); (*Rana pipiens*) (Morrill, G.A. (1158) 146)

Surfactant synthesis; Cholinephosphate cytidylyltransferase; Human fetal lung; Glucocorticoid; T_3 (Sharma, A. (1170) 237)

Renin promoter; c-Jun; (Mouse) (Tamura, K. (1172) 306)

Caffeine; Neuronal death; Nerve growth factor, NGF; Superior cervical ganglion; Calcium ion, intracellular (Tanaka, S. (1175) 114)

Aminopyrine accumulation; Glucose oxidation; Histamine; Ranitidine; (Rat) (Li, Z.-Q. (1175) 250)

Prostaglandin D_2; Calcium ion mobilization; Nonchromaffin cell; (Bovine adrenal medulla) (Okuda-Ashitaka, E. (1176) 148)

Phospholipase C; (Rat skeletal muscle) (Gumà, A. (1176) 155)

Prostaglandin E_2 receptor; U937 cell; Adenylate cyclase; Desensitization (Loh, C.L. (1177) 43)

Electropermeabilization; Signal transduction; NADPH oxidase; G protein; Neutrophil; (Human) (Mitsuyama, T. (1177) 167)

Aminopyrine accumulation; Histamine; Phosphodiesterase inhibitor; Ranitidine (Cabero, J.L. (1177) 245)

Glucose; Adenylate cyclase; Catabolite repression; (*A. viscosus*) (Watson, E.L. (1178) 243)

Protein kinase; Isoenzyme; Enzyme activation; Enzyme inhibitor (Døskeland, S.O. (1178) 249)

cyclic-AMP-dependent protein kinase
Site-directed mutagenesis; Substrate recognition; Substrate affinity (Tomoda, T. (1175) 333)

Phosphate transport; Protein kinase C; Phorbol ester; Forskolin; (NIH 3T3 cell) (Oláh, Z. (1176) 333)

β-Adrenergic receptor; DNA sequence; (Mouse) (Jasper, J.R. (1178) 307)

cyclic AMP response element
Gene expression; Insulin; Protein phosphatase; Okadaic acid; Signal transduction (Morrison, M.D. (1178) 135)

cyclic AMP-responsive element-binding protein
Transcription control; CREB; DNA binding; Gene transcription (Lee, K.A.W. (1174) 221)

cyclic AMP stimulation
Succinic thiokinase; Protein phosphorylation; Metabolic state; *Dictyostelium discoideum* (Schwandner, W.R.E. (1176) 175)

cyclic AMP-dependent protein kinase
Cα catalytic subunit; cDNA; Polymerase chain reaction; (Bovine) (Wiemann, S. (1171) 93)

Insulin; Growth factor; Ribosomal protein; Ribosomal protein S6; Protein kinase (Donella-Deana, A. (1178) 189)

cyclic AMP response element
c-*fos*; β_2-Adrenergic receptor; DNA methylation; Serum condition (Moens, U. (1173) 63)

Amphipathic α-helix
Synthetic peptide; Alpha helix; Liposome; Membrane fusion (Murata, M. (1152) 99)

Amphipathic base
Liposome; Drug delivery; Remote loading; Doxorubicin; Ammonium sulfate gradient (Haran, G. (1151) 201)

Amphipathic helix
Apolipoprotein A-IV; HDL; Reconstituted HDL; Infrared spectroscopy; FTIR (Lins, L. (1149) 267)

Apolipoprotein; Lipid–protein interaction; Secondary structure; Computer modelling; Synthetic peptide (Brasseur, R. (1170) 1)

Amphiphile
Multidrug resistance; Drug efflux; Membrane biophysical property; Fatty acid (Callaghan, R. (1175) 277)

Amphiphile molecule
Association probability; Monolayer; Cluster; Thermotropic behavior (Popescu, D. (1152) 35)

Amphiphilic β-structural peptide
Peptide; Phospholipid–peptide interaction; Liposome; Hemolysis; Antimicrobial activity; CD (Ando, S. (1147) 42)

Amphiphilic polypeptide
Membrane fusion; pH-dependence; Acidic amino acid; Alpha helix; Hydrophobicity (Kono, K. (1164) 81)

Amphotericin B
Polyene antifungal antibiotic; NMR, ^{1}H-; Circular dichroism; Aggregation (Balakrishnan, A.R. (1148) 269)

Nystatin; Pyranine; Ion current; Drug delivery; Liposome (Lambing, H.E. (1152) 185)

Patch clamp; Potassium ion channel; Toxicity; (MDCK cell) (Hsu, S.-F. (1152) 189)

Amplification
Kinetics; Activation step; Phototransduction; cyclic GMP cascade (Pugh, Jr., E.N. (1141) 111)

***amy* gene**
α-Amylase; (*S. lividans*) (Tsao, L.-S. (1171) 255)

α-Amylase
Isozyme purification; Active center; Subsite structure; Energetic profile; (Barley malt) (Ajandouz, E.H. (1159) 193)

amy gene; (*S. lividans*) (Tsao, L.-S. (1171) 255)

Amyloid
Neuron-specific enolase; Alzheimer's disease; Monoclonal antibody; Epitope mapping (Harrington, C.R. (1158) 120)

Pentraxin; C-reactive protein; P-component; Acute phase; Inflammation (Swanson, S.J. (1160) 309)

Serum amyloid A; Baculovirus (Kluve-Beckerman, B. (1182) 303)

Amyloid A protein
Serum amyloid A protein; Rheumatoid arthritis; Amino acid sequence; Mass spectrometry (Baba, S. (1180) 195)

Amyloid formation
Amyloid plaque; Alzheimer's disease; Calcitonin (Gilchrist, P.J. (1182) 111)

Amyloid plaque
Amyloid formation; Alzheimer's disease; Calcitonin (Gilchrist, P.J. (1182) 111)

Amyloid protein precursor
Alzheimer's disease; Transfected cell; Protein phosphorylation (Demaerschalck, I. (1181) 214)

Analytical ultracentrifugation
Light harvesting complex II; State of association; (*R. molischianum*) (Kleinekofort, W. (1140) 102)

Androgen
Adrenergic receptor; (Rat seminal vesicle) (Shima, S. (1175) 123)

α-Tocopherol; Estrogen; (Rat) (Feingold, I.B. (1176) 192)

Androstenedione
Structure-function; Heterologous expression; Androstenedione hydroxylation; Polychlorinated biphenyl; Cytochrome *P*-450 (Kedzie, K.M. (1164) 124)

Androstenedione hydroxylation
Structure-function; Heterologous expression; Androstenedione; Polychlorinated biphenyl; Cytochrome *P*-450 (Kedzie, K.M. (1164) 124)

Anesthetic
Bacteriorhodopsin; Purple membrane; Delipidation; Opsin shift; Acid-base equilibrium; Schiff base (Messaoudi, S. (1140) 45)

Ethanol; Partition; Configurational entropy; Phase equilibrium; EPR (Wang, D.-C. (1145) 141)

General anesthetic; Lipid–protein interaction; Acetylcholine receptor; Reconstitution; Spin label (Abadji, V.C. (1147) 143)

***anf* gene**
Nitrogen fixation; Nitrogenase; *nif* gene; (*C. pasteurianum*) (Zinoni, F. (1174) 83)

Angiogenesis
Ribonuclease superfamily; Ribonuclease inhibitor; Tryptophan fluorescence; Homology (Bond, M.D. (1162) 177)

Angiotensin II
Endothelin-1 mRNA; Protein kinase C; Heart endothelial cell; (Rat) (Chua, B.H.L. (1178) 201)

1,5-Anhydrofructose
α-1,4-Glucan lyase; α-1,4-Glucan; Starch; Glycogen; Gracilariales (Yu, S. (1156) 313)

Animal tissue
EPR; Iron-induced membrane lesion; Mononitrosyl iron complex; Nitric oxide (Kubrina, L.N. (1176) 240)

Anion channel
Mitochondrion; Mitochondrial inner membrane; Zwitterionic buffer; Matrix volume (Ng, L.T. (1143) 29)

Phosphate specificity; Outer membrane protein; Single-channel conductance; Lipid bilayer membrane; (*P. aeruginosa*) (Benz, R. (1149) 224)

Anion dependent cation transport
Bumetanide; Sodium ion, potassium ion–chloride cotransport; (mTAL cell); (Mouse) (Kaji, D.M. (1152) 289)

Anion efflux pump
Efflux; Efflux inhibitor; Efflux route; (L1210 cell); (Mouse) (Henderson, G.B. (1152) 91)

Anion exchange
Proximal tubule; Affinity chromatography; Membrane reconstitution (Soleimani, M. (1149) 127)

Placenta; Microvillous membrane; Chloride conductance (Byrne, S. (1153) 122)

Anion exchanger
Pancreas; Microsome; Endoplasmic reticulum; Light scatter; Nucleotide (Bégault, B. (1146) 183)

Anionic transport system
Fura-2; Multidrug transporting system; Intracellular calcium ion; Calcium ion, intracellular; Probenecid; Vanadate (Parisi, M. (1151) 1)

Anion transport
Okadaic acid; Phosphorylation; (Human erythrocyte) (Baggio, B. (1148) 157)

Anisotropic electron spin polarization
Photosynthesis; Bacterium; EPR; Electron transfer; (*R. rubrum*) (Hore, P.J. (1141) 221)

Anisotropy
Phycocyanin; Excitation energy transfer; Femtosecond spectroscopy; Photosynthesis (Gillbro, T. (1140) 321)

Creatine kinase; Protein conformation; Biphasic kinetics; Steady state fluorescence (Grossman, S.H. (1159) 29)

Ankyrin
EPR; Erythrocyte membrane (Hensley, K. (1145) 205)

Annealing
Catalase; Poly(1-benzyl-L-histidine); Two-dimensional crystal; Air/water interface; Monolayer (Sato, A. (1162) 54)

Annelid
Glycosphingolipid; Phosphocholine; Galactosylceramide; Recycling HPLC; (*Neanthes diversicolor*) (Noda, N. (1169) 30)

Annexin
Neutrophil; Membrane fusion; Phospholipid vesicle; Granule (Meers, P. (1147) 177)

Lipocortin; Calpactin; Posttranslational modification (Moss, S.E. (1160) 120)

Lung surfactant; Phospholipid-binding protein; Surface activity (Tsao, F.H.C. (1166) 39)

Annexin II
S-100 protein; p11; Calpactin I; Calcium ion binding; Acrylodan (Bianchi, R. (1160) 67)

Annexin V
Isoform; Primary structure; *N*-Acetylation; Protein kinase C; Phosphorylation (Learmonth, M.P. (1160) 76)

Anoxia
Reoxygenation; Mitochondrion; Enzyme release; Cyclosporin; (Rat liver) (Inoue, T. (1140) 313)

Cytosolic free calcium; LDH release; Cell viability; Calcium ion channel blocker; Verapamil; Nifedipine; Diltiazem; (Rat hepatocyte) (Gasbarrini, A. (1177) 1)

Antagonist
Amiloride derivative; Structure–activity relation; Cation binding; ATPase, Na^+/K^+- (David, P. (1146) 59)

Antarctic
Lipase; Facultative psychrophile; DNA sequence; Cold adaptation (Arpigny, J.L. (1171) 331)

Antenna
Chlorophyll *a*; Cyanobacterium; Photosystem I; Pump-probe spectroscopy; Ultrafast spectroscopy; (*Synechococcus*) (Lin, S. (1140) 6)

Energy transfer; Reaction center; Purple bacterium; (*Rps. viridis*); (*Rb. sphaeroides*); (*R. rubrum*); (*Chr. tepidum*) (Otte, S.C.M. (1143) 84)

Antenna complex
Light harvesting complex; Photosynthetic bacterium; Spectroscopic study; (*Rhodopseudomonas palustris*) (Van Mourik, F. (1140) 85)

Light-harvesting; LH1; Fluorescence spectroscopy; Photosynthesis; Energy transfer; (*Rs. rubrum*) (Visschers, R.W. (1141) 238)

Bacteriochlorophyll fluorescence; Energy transfer; Picosecond fluorescence decay; Photosynthesis; Reaction center; Fluorescence; (*Chloroflexus*); (Green bacterium) (Müller, M.G. (1144) 161)

Antenna deficient mutant
Reaction center; Time resolved spectroscopy; Femtosecond spectroscopy; (*Rb. capsulatus*) (Schmidt, S. (1144) 385)

Antenna size
Thylakoid membrane; Photosystem I heterogeneity; Light harvesting complex II; Aqueous two-phase partitioning; (Spinach chloroplasts) (Andreasson, E. (1141) 175)

Anterograde transport
Kinesin; Retina; Ganglion cell; Central nervous system; (Rabbit) (Morin, P.J. (1146) 275)

Anthracycline
Adriamycin; Cardiotoxicity; Cardiolipin; LUV; Membrane potential (Praet, M. (1148) 342)

Adriamycin; Adriamycin derivative; Daunorubicin; Cardiotoxicity; Free radical; (Mouse) (Praet, M. (1149) 79)

Iron-anthracycline complex; Microspectrofluorometry; (Tumor cell) (Fiallo, M. (1177) 236)

Anthroyl dolichol
Lysosome; Localization; Fluorescence; Microscopy (Jiang, L.W. (1147) 205)

Anti-band 3
Stored erythrocyte; Immunoglobulin G binding; Band 3 oligosaccharide; Oxidative damage; Glutathione; (Erythrocyte) (Ando, K. (1178) 127)

Antibody
Photophosphorylation; Reconstitution; Sequence (Hoesche, J.A. (1142) 293)

Liposome; Cytostatic effect; Recombinant; Tumor necrosis factor; Tumor cell (Morishige, H. (1151) 59)

Immunoliposome; Drug targeting; Methotrexate; Placental alkaline phosphatase; Alkaline phosphatase; Tumor cell A431 (Jones, M.N. (1152) 231)

Protein C; Fusion protein; Protein C heavy chain (Fijalkowska, I. (1161) 187)

Flavin-containing monooxygenase; Human liver; Purification; Amino-terminal sequence; (Primate) (Sadeque, A.J.M. (1162) 127)

Cofactor binding site; CoA requiring enzyme (Tucker, M.M. (1162) 315)

Photophosphorylation; Reconstitution; (*P. sativum*) (Hoesche, J.A. (1171) 201)

Adenosine receptor, A_1; Glycosylation; Immunoprecipitation; (Rat brain) (Nakata, H. (1177) 93)

Neoplasm; Tumor-associated antigen; Autologous antibody; Immunology; Serology; (Head); (Neck) (Vlock, D.R. (1181) 174)

Antibody affinity
Cooperativity; Monoclonal antibody; Solid phase (Werthén, M. (1162) 326)

Antibody binding
Cytochrome-*c* oxidase; Conformational dynamics; Subunit V (Freedman, J.A. (1164) 138)

Antibody H9724
Lyme disease; Molecular mimicry; Chaperonin; HSP60 (Dai, Z. (1181) 97)

Anticancer
Tamoxifen; Ergosterol; Antiyeast; Membrane antioxidant; Tamoxifen enhancement coefficient; Lipid peroxidation (Wiseman, H. (1181) 201)

Anti-cancer drug
Tamoxifen; Breast cancer; Membrane–lipid interaction; Membrane fluidity; Fluorescent probe (Custódio, J.B.A. (1150) 123)

HydroxyTamoxifen; Antiestrogen; Breast cancer; Membrane–lipid interaction; Membrane fluidity; Fluorescent probe (Custódio, J.B.A. (1153) 308)

Anti-complement effect
Bile pigment; Biliverdin; Bilirubin; Heme oxygenase (Nakagami, T. (1158) 189)

Anti-CRD antibody
Crossreacting determinant; Glycosylphosphatidylinositol anchor; Insulin mediator; Membrane dipeptidase (Broomfield, S.J. (1145) 212)

Antiestrogen
HydroxyTamoxifen; Anti-cancer drug; Breast cancer; Membrane–lipid interaction; Membrane fluidity; Fluorescent probe (Custódio, J.B.A. (1153) 308)

Antifolate CB 3717
Polyamine; Renal hypertrophy; Renal hyperplasia; Testosterone; α-Difluoromethylornithine (Manteuffel-Cymborowska, M. (1182) 133)

Antifreeze glycoprotein
Antifreeze protein; Cryotoxicity; Freeze-thaw damage; Plastocyanin; Thylakoid; (Spinach) (Hincha, D.K. (1146) 258)

Antifreeze protein
Antifreeze glycoprotein; Cryotoxicity; Freeze-thaw damage; Plastocyanin; Thylakoid; (Spinach) (Hincha, D.K. (1146) 258)

Antigen/allergen
Phospholipase A_2; Synthetic gene; Prokaryotic expression; Kallikrein; Refolding (Dudler, T. (1165) 201)

Antigen-antibody reaction
Organic solvent; Antitestosterone antiserum; Sterical effect (Giraudi, G. (1157) 211)

Antigen group polymorphism
*Xba*I RFLP; Haplotype; LDL (Dunning, A.M. (1165) 271)

Antigenic determinant
Chorionic gonadotropin; Monoclonal antibody; Structure-function relationship (Maurel, M.-C. (1159) 74)

Antigenic mycobacterial glycolipid
Glycolipid; Mycobacterium; Glucuronic acid; FABMS; NMR, ^{1}H- (Wolucka, B.A. (1170) 131)

Antigen induced stabilization
Hydrogen exchange; Monoclonal antibody; Fab fragment; Antigen recognition (Rizzo, P. (1159) 169)

Antigen recognition
Hydrogen exchange; Monoclonal antibody; Fab fragment; Antigen induced stabilization (Rizzo, P. (1159) 169)

Anti-inflammatory
Phospholipase A_2; Arachidonic acid; Icosanoid (Ramesha, C.S. (1168) 37)

Antimicrobial activity
Amphiphilic β-structural peptide; Peptide; Phospholipid–peptide interaction; Liposome; Hemolysis; CD (Ando, S. (1147) 42)

Antimycin A
QH_2:cytochrome *c* reductase; Inhibitory site: 3-Nitrosalicyl *N*-alkylamide (Xu, J.-x. (1142) 83)

Structure–activity relationship; Cytochrome bc_1 complex; Electron transport (Tokutake, N. (1142) 262)

Antioxidant
Oxygen radical; Iron-binding protein; Iron oxidizing protein (Gutteridge, J.M.C. (1156) 144)

Kidney zone; Oxidative stress; Chemiluminescence; Ischemia-reperfusion (Gonzalez-Flecha, B. (1157) 155)

Atherosclerosis; Coenzyme Q; NADH-dehydrogenase; Ubiquinol-10 (Stocker, R. (1158) 15)

Oxygen radical; Iron-binding protein; Iron-oxidizing protein; (Human plasma) (Gutteridge, J.M.C. (1159) 248)

Selenium; Selenoprotein; Diet; Glutathione peroxidase; (Brain); (Rat) (Buckman, T.D. (1163) 176)

LDL; Oxidation; Albumin; (Human) (Dobrian, A. (1169) 12)

Protein kinase C; Tocopherol; Tocotrienol; Cell proliferation; (Smooth-muscle cell) (Chatelain, E. (1176) 83)

Lipid signaling; Inositol lipid signaling; Coupling mechanism (Khan, M.A. (1178) 215)

Antioxidant activity
Biological hydroquinone; Reaction rate; Stopped-flow (Mukai, K. (1157) 313)

Antioxidant enzyme
NAD(P)H:quinone reductase; DT-Diaphorase; Superoxide dismutase; Catalase; Glutathione reductase; Oxygen toxicity; Lung (Whitney, P.L. (1156) 275)

Anti-peptide antibody
Sodium ion channel; Saponin; Electron microscopy; Immunoblot; Proteinase digestion (Nakayama, H. (1145) 134)

Endoplasmic reticulum; ATPase, Ca^{2+},Mg^{2+}-; Isoform; (Rat); (Pancreas) (Dormer, R.L. (1152) 225)

Cytochrome *P*-450; Monoclonal antibody; Epitope; Enzyme inhibition; Protein structure (Edwards, R.J. (1161) 38)

Sodium channel; Protein phosphorylation; Phosphorylation block; Phosphorylated peptide; (Rat brain) (Nakayama, H. (1175) 67)

Anti-phospholipid antibody
Platelet microparticle; Coagulation; Phospholipid asymmetry; Sickle cell; Scott syndrome (Zwaal, R.F.A. (1180) 1)

α_2-Antiplasmin
Plasminogen activation; Histidine-rich glycoprotein; Fibrin; Fibrinolysis; Serine proteinase (Angles-Cano, E. (1156) 34)

Antiprogestin ZK-98.299
Progesterone; Receptor; (Human myometrium) (D'souza, A. (1175) 73)

Antitestosterone antiserum
Organic solvent; Antigen-antibody reaction; Sterical effect (Giraudi, G. (1157) 211)

Antithrombin
Heparin; Binding; Thermodynamics; Calorimetry; Thermal denaturation (DeLauder, S. (1159) 141)

cDNA sequence; (Liver); (Sheep) (Niessen, R.W.L.M. (1171) 207)

Barley; Intron; Homology; (*H. vulgare*) (Rasmussen, S.K. (1172) 151)

Antithrombin III
cDNA cloning; RNA nuclease-protection assay; In vitro translation (Amrani, D.L. (1171) 239)

Antitumor activity
Nitric oxide production; Tumor necrosis factor; Cytotoxicity; (Human-mouse hybrid cell line) (Southern, C. (1177) 179)

Antitumor drug
Bleomycin hydrolase gene; Cysteine proteinase; (*S. cerevisiae*) (Magdolen, U. (1171) 299)

Anti-viral agent
Virus replication inhibitory peptide; Lipid polymorphism; Membrane intrinsic curvature; Membrane fusion (Epand, R.M. (1152) 128)

Antiviral protein
Interferon; cDNA; Expression; (Flatfish) (Tamai, T. (1174) 182)

Anti-Xa activity
Heparin-amine salt; Behavior in solution; Intraduodenal absorption (Zoppetti, G. (1156) 92)

Antiyeast
Tamoxifen; Ergosterol; Anticancer; Membrane antioxidant; Tamoxifen enhancement coefficient; Lipid peroxidation (Wiseman, H. (1181) 201)

Anuran freeze tolerance
Fructose 2,6-bisphosphate; Regulation of phosphofructokinase; Frog liver glycolysis (Vazquez Illanes, M.D. (1158) 29)

Aorta
Type IV collagen; Noncollagenous domain; High pressure liquid chromatography; Western blotting; Immunofluorescence (Reddy, G.K. (1157) 241)

AP-1
TIMP; c-*fos*; c-*jun*; c-*ets*; PEA3; Transcriptional regulation (Edwards, D.R. (1171) 41)

Aurothioglucose; Indomethacin; Interleukin 1; Recombinant gene; Murine fibroblast cell; NF-kB; (NIH 3T3 cell) (Williams, D.H. (1180) 9)

Ap_4A
Diadenosine tetraphosphate; Diadenosine tetraphosphate hydrolase; Fission yeast; (*S. pombe*) (Robinson, A.K. (1161) 139)

***Apa*BI**
Endonuclease; Site-specific cleavage; (*A. pasteurianus*) (Grones, J. (1162) 323)

Apamin
Toxin; Biotin-avidin; NMR; Calcium-activated K^+ channel; Adrenergic receptor (Shahidi, S. (1157) 74)

Apo A-I
Apo A-II; HDL subpopulation; Protein transfer; Immunoaffinity chromatography; Radioiodination (Cheung, M.C. (1165) 68)

Apo E gene expression; Liver regeneration (Panduro, A. (1167) 37)

Apo A-I-containing subpopulation
Reverse cholesterol transport; Interstitial fluid; Prenodal peripheral lymph; Two-dimensional electrophoresis (Asztalos, B.F. (1169) 301)

Apo A-II
Apo A-I; HDL subpopulation; Protein transfer; Immunoaffinity chromatography; Radioiodination (Cheung, M.C. (1165) 68)

Apo B-100
LDL; LDL receptor; HepG2 (Hara, S. (1168) 199)

Apo E gene expression
Apo A-I; Liver regeneration (Panduro, A. (1167) 37)

Apo E subunit
Apolipoprotein(AII-E2-AII) complex; Identification; Enzyme-linked immunosorbent assay; Immunoblotting; (Human) (Tozuka, M. (1165) 61)

Apoferritin
X-ray absorbance; Chemical modification; Iron–iron interaction; (Horse spleen) (Strange, R. (1164) 331)

Apohemoprotein
Cytochrome *P*-450; Allylisopropylacetamide; (Rabbit liver microsome) (Golly, I. (1142) 74)

Apolipoprotein
HDL; Immunoaffinity chromatography; Reverse cholesterol transport; Cell culture (Oikawa, S. (1165) 327)

VLDL; Heparin-Sepharose; Lipoprotein lipase; Triacylglycerol hydrolysis; Adipose tissue; (Human) (Gómez-Coronado, D. (1167) 70)

Isoform; Insulin deficiency; Diabetic; Fasting; [^{3}H]Leucine; (Rat) (Callow, M.J. (1168) 271)

Lipoprotein; Cholesterol; Skeletal muscle lymph; Peripheral lymph; (Dog) (Sloop, C.H. (1169) 196)

Amphipathic helix; Lipid–protein interaction; Secondary structure; Computer modelling; Synthetic peptide (Brasseur, R. (1170) 1)

Synthetic peptide; Phospholipid; Lipid–protein interaction; Discoidal complex (Corijn, J. (1170) 8)

HDL; Tangier disease; Plasma lipoprotein; Cholesterol transport (Duchateau, P. (1182) 30)

Apolipoprotein A-I
Cholesterol gallstone; Nucleation time; Vesicle; Discoidal particle; Transmission electron microscopy (Tao, S. (1166) 25)

Atherosclerosis; Cholesteryl ester; Probucol; Cholesterol–LDL; Cholesterol–HDL (Eisenberg, S. (1167) 79)

Reconstituted HDL; Apolipoprotein A-II; Cholesteryl ester (Rye, K.-A. (1167) 316)

Apolipoprotein A-II
Reconstituted HDL; Apolipoprotein A-I; Cholesteryl ester (Rye, K.-A. (1167) 316)

Cloning; Sequence analysis; Cynomolgus; (*M. fascicularis*) (Osada, J. (1172) 340)

Apolipoprotein(AII-E2-AII) complex
Identification; Apo E subunit; Enzyme-linked immunosorbent assay; Immunoblotting; (Human) (Tozuka, M. (1165) 61)

Apolipoprotein A-IV
HDL; Reconstituted HDL; Amphipathic helix; Infrared spectroscopy; FTIR (Lins, L. (1149) 267)

mRNA; Intestinal apo A-IV; Serum triacylglycerol; Triacylglycerol; Fat absorption; Fat secretion; (Rat pups) (Sato, M. (1165) 93)

Apolipoprotein C-III; Cloning; Sequence analysis; Cynomolgus; (*M. fascicularis*) (Osada, J. (1172) 335)

DNA; Genetic polymorphism; Japanese population; PCR (Bai, H. (1174) 279)

Apolipoprotein B
Drug delivery; Liposome; Drug targeting (Lundberg, B. (1149) 305)

Okadaic acid; CaCo-2 cell; Phosphorylation (Mathur, S.N. (1168) 130)

Oleate; Cholesteryl ester; Fluvastatin; 25-Hydroxycholesterol; (HepG2 cell) (Furukawa, S. (1170) 32)

Apolipoprotein C-III
Apolipoprotein A-IV; Cloning; Sequence analysis; Cynomolgus; (*M. fascicularis*) (Osada, J. (1172) 335)

Apolipoprotein mRNA
Solution hybridization; LDL receptor mRNA; Infant nutrition; Dietary fat; (Nonhuman primate) (Mott, G.E. (1169) 59)

Apolipoprotein secretion
NB-598; Squalene epoxidase inhibitor; L-654,969; Lipid secretion; HepG2 cell (Horie, M. (1168) 45)

Apolipoprotein synthesis
HMG-CoA reductase; Simvastatin; Cholestyramine; mRNA; Hypolipemia; (Rat liver) (Mitchell, A. (1167) 9)

Apoprotein
Total parenteral nutrition; Lipoprotein; Catabolism; (Rat) (Hajri, T. (1166) 84)

Lipoprotein; LDL; HDL; VLDL; (Quail) (Oku, H. (1167) 22)

Apoprotein activator
Lecithin-cholesterol acyltransferase; Lysolecithin acyltransferase; LDL; HDL (Liu, M. (1168) 144)

Apoptosis
Topoisomerase inhibitor; Programmed cell death; (Mouse thymocyte) (Onishi, Y. (1175) 147)

gp80; Clusterin; DNA transfection; Protein secretion (Pilarsky, C. (1179) 306)

Apparent sigmoid kinetics
Glucose-6-phosphatase; Hysteresis; Kinetics (Nelson-Rossow, K.L. (1163) 297)

Aprotinin
mRNA; Translation, in vitro; Spleen inhibitor; Translation control; Trypsin inhibitor; Precursor; (Bovine) (Gambacurta, A. (1174) 267)

Apyrase
ATP diphosphohydrolase; Vascular smooth muscle cell; Purine nucleotide; Platelet aggregation (Côté, Y.P. (1160) 246)

Aqueous phase system
Alkaline phosphatase; Glycan phosphatidylinositol-specific phospholipase D; Glycan phosphatidylinositol-specific phospholipase C; Partitioning (Raymond, F.D. (1156) 117)

Aqueous two-phase partitioning
Thylakoid membrane; Antenna size; Photosystem I heterogeneity; Light harvesting complex II; (Spinach chloroplasts) (Andreasson, E. (1141) 175)

A7r5
Chloride channel; Gene expression; Oocyte expression; (*Xenopus*); (Rat) (Abe, T. (1173) 353)

Arachidonic acid
Cholesterol; Diabetes mellitus; Fatty acid; Glycerol permeability; Phospholipid; Renal cortical membrane; Brush-border membrane; Basolateral membrane; DPH; Fluorescence polarization (Ramsammy, L.S. (1146) 1)

Membrane dynamics; Phosphatidylcholine; Plasmalogen; NMR, ^{1}H-; Fluorescence (Chen, X. (1149) 241)

Microsomal membrane; Δ^5-Desaturase; Phospholipid composition; Fluidity; (Rat liver) (Leikin, A.I. (1165) 189)

Glucose; Icosanoid; Reacylation; (Endothelial cell) (Brown, M.L. (1165) 239)

Phospholipase A_2; Icosanoid (Steiner, M.R. (1166) 124)

Glucocorticoid receptor; Dexamethasone; Prostaglandin I_2; Cell culture; Smooth muscle cell (Petrichenko, I. (1166) 183)

Mast cell; Icosanoid; Prostaglandin; Hydroxy fatty acid; Linoleic acid (Van Haaster, C.M.C.J. (1167) 147)

Fatty acid; ω-Hydroxylase; Omega hydroxylation; Cytochrome *P*-450; Kidney microsome; (Rabbit) (Sawamura, A. (1168) 30)

Phospholipase A_2; Icosanoid; Anti-inflammatory (Ramesha, C.S. (1168) 37)

Phospholipase A_2; Calcium; Bivalent cation; Exocytosis; Acrosome reaction; Sperm (Roldan, E.R.S. (1168) 108)

Melanin precursor; Lipid peroxidation; Lipoxygenase (Napolitano, A. (1168) 175)

Acyltransferase; Ethanol; Phospholipase A_2; Macrophage; (Mouse) (Balsinde, J. (1169) 54)

Fatty acid binding protein; Brown adipose tissue; Amino acid sequence; (Rat) (Dutta-Roy, A.K. (1169) 73)

Glycerolipid metabolism; Phosphatidylcholine; Clofibric acid; Kidney; (Rat) (Kawashima, Y. (1169) 202)

THP-1 cell; Icosapentaenoic acid; Phosphatidylcholine; FABMS; (Human monocyte) (Galella, G. (1169) 280)

Triacylglycerol; Triarachidonoylglycerol; Triacylglycerol biosynthesis; Phospholipid; Lipolysis; Triacylglycerol lipase (Blank, M.L. (1170) 275)

Stearoyl-CoA desaturase; Lymphocyte; Gene expression (Tebbey, P.W. (1171) 27)

Cytochrome *P*-450; *CYP*4AII; Fatty acid; ω-Hydroxylase; (Human kidney) (Palmer, C.N.A. (1172) 161)

Protein kinase C; Signal transduction; Tumor promotion; Phorbol ester; (Rat brain) (Huang, X.P. (1175) 351)

NADPH oxidase; Substrate affinity; Signal transduction; Enzyme activation; (Cytoplasmic membrane); (Endosome) (Rubinek, T. (1176) 51)

Insulin secretion; Islet of Langerhans; Norepinephrine; (Rat) (Band, A.M. (1176) 64)

G protein; Phospholipase A_2; Signal transduction; (Mouse macrophage) (Fernández, B. (1176) 169)

Phospholipase A_2; 1,3-Dioctanoylglycerol; 1,2-Dioctanoylglycerol; Prostaglandin B_1 oligomer; Superoxide; (Human neutrophil) (Rosenthal, M.D. (1177) 79)

Fatty acid; Conformational analysis; Computer simulation; Molecular dynamics simulation (Rich, M.R. (1178) 87)

Myoblast; 1,25-Dihydroxyvitamin D-3; Phospholipase A_2; Protein kinase C (De Boland, A.R. (1179) 98)

Linoleic acid; $(n-3)$ Fatty acid; Icosanoid; Icosapentaenoic acid; Highly unsaturated fatty acid; Plasma phospholipid; Dietary fat (Lands, W.E.M. (1180) 147)

Arachidonic acid metabolism
Enzyme expression; LDL oxidation; Inflammation (Kühn, H. (1169) 80)

AIDS; Kaposi sarcoma; Epoxyicosatrienoic acid (Dray, F. (1180) 83)

Arachidonic acid release
Platelet-derived growth factor; Protein kinase C; Free calcium ion; Fibroblast (Chow, S.C. (1179) 81)

Bradykinin; Cystic fibrosis; Epithelial cell (Levistre, R. (1181) 233)

Archaebacterium
Liposome; Acidophile; Permeability (Yamauchi, K. (1146) 178)

Aspartate aminotransferase; Hyperthermophilia; Thermostability; Expression; Protein purification; (*S. solfataricus*); (*E. coli*) (Arnone, M.I. (1160) 206)

aEF-1α; EF-Tu; Thermostability; Urea denaturation (Masullo, M. (1162) 35)

Microsequence analysis; Cysteine motif; Evolution (Bergmann, U. (1173) 195)

Succinate dehydrogenase; Nucleotide sequence (Bach, M. (1174) 103)

Argentinean deme
Deme; Hexosaminidase; Lysosomal storage disease; G_{M2} gangliosidosis (Brown, C.A. (1180) 91)

L-Arginine
Polyamine; L-Glutamine; Ornithine decarboxylase; Isolated enterocyte; (Newborn pig) (Blachier, F. (1175) 21)

Macrophage; Dinitrosyl-iron dithiolate complex; Dinitrosyl-iron serum albumin complex; EPR; Nitric oxide; Mononitrosyl-iron diethyldithiocarbamate complex (Vanin, A.F. (1177) 37)

Arginine modification
Nitrite reductase; Ferredoxin binding; Complex formation; Lysine modification (Hirasawa, M. (1140) 304)

Glutamate synthase; Ferredoxin binding; Lysine modification (Hirasawa, M. (1144) 85)

Arginine vasotocin
Hydrin; Aldosterone release; Arginine vasotocin-related peptide; (*Xenopus*) (Iwamuro, S. (1176) 143)

Arginine vasotocin-related peptide
Arginine vasotocin; Hydrin; Aldosterone release; (*Xenopus*) (Iwamuro, S. (1176) 143)

Argininosuccinate lyase
Pigeon lens; δ-Crystallin; Glycogen; Polymerase chain reaction; Sequence comparison; (*C. livia*) (Chiou, S.-H. (1160) 317)

Urea cycle; Nitric oxide; B1 repeat; Upstream AUG codon; Upstream open reading frame; Brain; (Rat) (Kawamoto, S. (1173) 111)

Aromatic amino acid
α-Crystallin; Protein matrix; Micelle (Augusteyn, R.C. (1162) 61)

Aromatic compound
3-Deoxy-D-*arabino*-heptulosonate 7-phosphate synthase; Tryptophan; (*S. rimosus*) (Stuart, F. (1161) 209)

Arrhenius plot
Butyrylcholinesterase; Soman; Hydrostatic pressure; Conformational change (Cléry, C. (1159) 295)

***Artemia* development**
Purine; Synthesis; Purine metabolism (Rotllan, P. (1156) 128)

Arterial injury
LDL; Proteoglycan; Binding properties; (Rabbit) (Srinivasan, S.R. (1168) 158)

Arthritis
Cartilage; Chondrocyte; Cytokine; Macrophage colony-stimulating factor; Interleukin 1 (Campbell, I.K. (1182) 57)

Arylsulfatase
Lysosomal enzyme; Posttranslational processing; Protein sequence (Kobayashi, T. (1159) 243)

Aryl sulfotransferase
Sulfotransferase; Oxime; Sulfation; Substituent effect (Mangold, J.B. (1163) 217)

Asbestos
Mesothelioma; Cell; Adhesion; Cell surface thermodynamics; Contact angle (Lee, M.M. (1181) 223)

Ascorbate
Dehydroascorbate; Oxidative stress; Reactive oxygen species; (Mouse) (Iheanacho, E.N. (1182) 15)

Ascorbic acid
Proton/electron transfer; Secretory vesicle; Cytochrome *b*-561 (Njus, D. (1144) 235)

Ciliary epithelium, non-pigmented; Protein kinase C; cyclic AMP; ATPase, Na^+/K^+-; Membrane transport (Delamere, N.A. (1149) 102)

Dehydroascorbic acid reductase; Se-dependent glutathione peroxidase; Glutathione transferase; Catalase; Hydrogen peroxide; (Insect) (Summers, C.B. (1156) 235)

Asialoglycoprotein receptor
cDNA sequence; (Mouse hepatic lectin) (Takezawa, R. (1172) 220)

Asian horseshoe crab
Sialoglycoprotein; *Tachypleus tridentatus*; Glycophorin HA affinity chromatography (Tsuboi, I. (1156) 255)

Asparagine methylation
Phycobiliprotein; Posttranslational modification; Oxygen evolution; Photosystem II (Thomas, B.A. (1143) 104)

L-Aspartate
Proliferation; Oncogene; Amino acid transport; L-Glutamate; (Fibroblast) (Bussolati, O. (1151) 153)

Aspartate aminotransferase
Archaebacterium; Hyperthermophilia; Thermostability; Expression; Protein purification; (*S. solfataricus*); (*E. coli*) (Arnone, M.I. (1160) 206)

Yeast enzyme; Mitochondrial targeting sequence; (*S. cerevisiae*) (Morin, P.J. (1171) 211)

Aspirin
Malondialdehyde; Lipid peroxidation; Lens crystallin; Cataract; Ibuprofen (Riley, M.L. (1158) 107)

Lens crystallin; Cataract; Disulfide bonding (Qin, W. (1181) 103)

Assembly
ATPase, F_0F_1-; *c*-subunit; Site-directed mutagenesis; (*E. coli*) (Hatch, L. (1141) 183)

α-Toxin; Nicked toxin, naturally occurring; Membrane channel; Multilamellar liposome; (*S. aureus*) (Tomita, T. (1145) 51)

Assembly polypeptide
Clathrin; Coated vesicle; Gene sequence; (Yeast); (*S. cerevisiae*) (Nakai, M. (1174) 282)

Assimilatory sulfate reduction
Hydrogen sulfide : ferredoxin oxidoreductase; DNA sequence; Cyanobacterium; Sulfate reduction; (*Synechococcus*) (Gisselmann, G. (1144) 102)

Association–dissociation
ATPase, Na^+/K^+-; Membrane protein; Oligomeric structure; Molecular weight; Phospholipid (Mimura, K. (1145) 63)

Association probability
Amphiphile molecule; Monolayer; Cluster; Thermotropic behavior (Popescu, D. (1152) 35)

Association state
Erythrocyte membrane; Band 3; Glycoprotein; Membrane; (Human) (Wong, P. (1151) 21)

Asymmetric membrane carrier
Erythrocyte; Sodium ion; Magnesium ion; Magnesium–sodium ion exchange; (Human) (Schatzmann, H.J. (1148) 15)

Asymmetric mixed-chain phosphatidylcholine
Phosphatidylcholine; DSC; Mixed interdigitated bilayer; Phase transition behavior (Huang, C. (1145) 298)

Asynchronous unfolding
Maltotetraose-forming amylase; D-Glyceraldehyde-3-phosphate dehydrogenase; Denaturation; Maltotetraose; (*Alcaligenes*) (He, R.-Q. (1163) 315)

Atheroma
Atherosclerosis; Normal aorta; Lipid; Oxysterol; Hydroxyoctadecadienoic acid; (Human) (Carpenter, K.L.H. (1167) 121)

Atherosclerosis
Liposome; Cholesterol; Reverse cholesterol transport (Rodrigueza, W.V. (1153) 9)

Antioxidant; Coenzyme Q; NADH-dehydrogenase; Ubiquinol-10 (Stocker, R. (1158) 15)

Hydroperoxide; Low-density lipoprotein; Chemiluminescence; Modified low-density lipoprotein; Lipid peroxidation (Cominacini, L. (1165) 279)

Cholesteryl ester; Probucol; Apolipoprotein A-I; Cholesterol–LDL; Cholesterol–HDL (Eisenberg, S. (1167) 79)

Atheroma; Normal aorta; Lipid; Oxysterol; Hydroxyoctadecadienoic acid; (Human) (Carpenter, K.L.H. (1167) 121)

Macrophage; LDL; HDL; Prostaglandin; HPLC (Jambou, D. (1168) 115)

Flow chamber; Intercellular adhesion molecule 1; Vascular cell adhesion molecule 1; Myeloperoxidase; Rose Bengal (Jeng, J.-R. (1178) 221)

Lipid peroxidation; 3-Morpholinosydnonimine hydrochloride; Superoxide anion radical; Nitric oxide radical; LDL (Jessup, W. (1180) 73)

ATP
Free energy change; Inorganic pyrophosphate; Pyrophosphate; Thermodynamic model; Metabolism (Davies, J.M. (1141) 29)

Mitochondrial biogenesis; Puromycin; Protein transport; Biogenesis; Precursor protein; (Mitochondrion) (Price, J. (1150) 89)

ATPase, H^+-; Transport ATPase; ATP activation; (Yeast) (Berberián, G. (1153) 283)

Phosphocreatine; Stroke; Calcium; Magnesium (Schanne, F.A.X. (1158) 257)

Smooth muscle; Phospholipase A_2; Phospholipid; Calcium; Icosanoid; Signal transduction (Miyake, R. (1165) 167)

Leukotriene B_4; Transporter; Oocyte; Microinjection (Mori, M. (1168) 23)

Calpain I; Platelet; Thrombin (Ishii, H. (1175) 37)

Potassium; Sodium; Magnesium; K^+/Na^+ ratio; (Mammalian erthrocyte); (Avian erythrocyte) (Miseta, A. (1175) 133)

Calcium; Fura-2; Nucleotide; Suramin; Puriceptor; (Renal proximal cultured cell) (Cejka, J.-C. (1176) 7)

Mast cell; Permeabilization; Exocytosis; Calcium; GTPγS (Koffer, A. (1176) 222)

Permeabilization; Exocytosis; Calcium; Guanine nucleotide; G protein; Transphosphorylation; (Mast cell) (Koffer, A. (1176) 231)

Purinoceptor; Platelet Membrane; Extracellular ATP (Soslau, G. (1177) 199)

Magnesium ion; Calcium ion; ADP; AMP; Mitochondrial inhibitor; Glycolytic inhibitor; (Opossum kidney) (Li, H.-y. (1181) 307)

ATP activation
ATPase, H^+-; Transport ATPase; ATP; (Yeast) (Berberián, G. (1153) 283)

ATP binding site
Multidrug resistance; P-glycoprotein; Glycoprotein; 3′ Untranslated region; Detoxification; (Winter flounder) (Chan, K.M. (1171) 65)

Calmodulin; Calcium ion/calmodulin-dependent protein kinase II; Binding affinity; Autophosphorylation (Sugiura, H. (1177) 270)

ATP dependence
Proton transport; Membrane vesicle; (Medullary bone) (Mattsson, J.P. (1146) 106)

ATP depletion
Calcium ionophore A23187; Calcium; Enzyme release; Glycolysis; Oxidative phosphorylation; (Fibroblast) (Kristensen, S.R. (1179) 23)

ATP diphosphohydrolase
Apyrase; Vascular smooth muscle cell; Purine nucleotide; Platelet aggregation (Côté, Y.P. (1160) 246)

ATP, extracellular
Isolated hepatocyte; Cell death; Protein synthesis (Tinton, S.A. (1176) 1)

ATP generation
ATPase, Kdp^-; Potassium transport; Right-side-out membrane vesicle; Phosphoglycerate transport; (*E. coli*) (Kollmann, R. (1143) 62)

ATP hydrolysis
Chloroplast; ATPase, H^+-; F_0F_1; Binding site (Labahn, A. (1141) 288)

ATP-sensitive potassium channel
Sulfonylurea; Diazoxide; Glibenclamide (Ashcroft, S.J.H. (1175) 45)

ATP synthase
Oxidative photophosphorylation; Photophosphorylation; Binding change; Alternating site; Catalytic cooperativity (Boyer, P.D. (1140) 215)

ATPase, F_1-; Catalytic subunit; Enzyme reconstitution; Heterodimer; (*R. rubrum*) (Andralojc, P.J. (1143) 51)

Enzyme kinetics; Proton translocation; pH difference determination; Fluorescent probe; Energy coupling (Fregni, V. (1143) 215)

Oligomycin sensitivity conferring protein (OSCP); ATPase inhibitor protein; IF_1; Subunit c; Proteolipid; DNA sequence; Protein sequence (Higuti, T. (1172) 311)

ATPase; Subunit c; Proteolipid; DCCD-binding protein; Ceroid-lipofuscinosis; Batten's disease; (Human mitochondria) (Higuti, T. (1173) 87)

Alcohol; Cardiomyopathy; Mitochondrion; Regulation; (Heart) (Das, A.M. (1181) 295)

ATP synthase assembly
Mitochondrion; Mitochondrial import; Allotopic expression; Site-directed mutagenesis; Duplicated targeting sequence; (Yeast) (Papakonstantinou, T. (1144) 22)

ATP synthase, F_1F_0-
Alpha helix; α-Helical periodicity; Fourier transform; Hydropathy analysis; Proton channel (Vik, S.B. (1140) 199)

ATP synthase, F_0F_1-
Alpha subunit; Mitochondrion; Nuclear gene; Promoter region (Jordan, E.M. (1173) 115)

ATP synthase, H^+-
Proteoliposome; Plastoquinone: plastocyanin oxidoreductase; Energy transduction; Proton pumping; Cyanobacterium; (*Synechococcus* 6716) (Krenn, B.E. (1140) 271)

Enzyme activation; Enzyme regulation; Proton gradient; Energy transduction; (Cyanobacteria); (Chloroplasts) (Krab, K. (1141) 197)

ATP/ADP translocase
Phosphocreatine; Creatine kinase; Mitochondrion; Oxidative phosphorylation; Mathematical modeling; Heart (Aliev, M.K. (1143) 291)

ATPase
CF_1; Photophosphorylation; Proton channel; Reconstitution; Subunit (Engelbrecht, S. (1140) 157)

Glycoprotein, P-; Glycoprotein; Multidrug resistance; Detergent; Phospholipid (Doige, C.A. (1146) 65)

Red cell membrane; Sodium pump; Transport activity; Acylphosphatase (Nassi, P. (1147) 19)

Plasma membrane ATPase; Enzyme regulation; (*S. cerevisiae*) (Amigo, L. (1151) 83)

ATPase subunit B; Gene expression; Vacuole; (*S. cerevisiae*) (Pan, Y.-X. (1151) 175)

Calcium ion pump; Inhibition; Red blood cell; *tert*-Butyl hydroperoxide; Glutathione peroxidase; (Human) (Rohn, T.T. (1153) 67)

ATP synthase; Subunit c; Proteolipid; DCCD-binding protein; Ceroid-lipofuscinosis; Batten's disease; (Human mitochondria) (Higuti, T. (1173) 87)

Lacticacidemia; Pyruvate dehydrogenase complex; NADH-CoQ reductase; Cytochrome oxidase; Oligomycin sensitivity (Robinson, B.H. (1182) 231)

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Almitrine; Oxidative phosphorylation; Lipid composition; Age; (Rat liver mitochondrion) (Jumelle-Laclau, M. (1141) 90)

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Lipid; Perturbation; *trans*-Parinaric acid (Kalabokis, V.N. (1147) 35)

Alamethicin; ATPase, Na^+/K^+-; Brain microsome; Platelet; Sarcoplasmic reticulum; Proteoliposome; Bilayer lipid membrane (Ritov, V.B. (1148) 257)

Red blood cell; Inhibition, non-competitive; Cadmium ion (Visser, G.J. (1152) 26)

Skeletal muscle; Thyroid hormone; Milrinone; (Rabbit) (Warnick, P.R. (1153) 184)

ATPase, H^+-; ATPase, H^+/K^+-; ATPase, Na^+/K^+-; Strophanthidin; Positive inotropic effect (Xu, K.-y. (1159) 109)

ATPase phosphorylation; Dimethylsulfoxide; Phosphorylation site; Inorganic phosphate (Mintz, E. (1162) 227)

Sarcoplasmic reticulum; Fluoride; Magnesium; Inhibition; Tight binding (Kubota, T. (1163) 131)

ATPase, $(Ca^{2+}+Mg^{2+})$-
Fluorescence; Resonance energy transfer; Sarcoplasmic reticulum; Covalent modification (Mata, A.M. (1147) 6)

ATPase, Ca^{2+},Mg^{2+}-
Endoplasmic reticulum; Isoform; Anti-peptide antibody; (Rat); (Pancreas) (Dormer, R.L. (1152) 225)

Calmodulin; MLC kinase; Calcineurin; NAD kinase; Enzyme regulation (Persechini, A. (1163) 309)

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Purine nucleotide; Synaptosome; Ectonucleotidase; Nucleotidase; (Bovine brain) (Hohmann, J. (1152) 146)

ATPase, F_1-
Catalytic site; Non-catalytic site; Cooperativity; 8-Azido-adenine nucleotide; Photo affinity labeling (Edel, C.M. (1142) 327)

ATP synthase; Catalytic subunit; Enzyme reconstitution; Heterodimer; (*R. rubrum*) (Andralojc, P.J. (1143) 51)

Mutant strain; Gene complementation; Mutant strain complementation; Gene expression; (*E. coli*); (*Synechocystis* sp. PCC 6803) (Lill, H. (1144) 278)

Azido-AMP-PNP; Cooperativity; Mitochondrion; Substrate binding; (Beef heart) (Eckhardt, U. (1144) 419)

β-Subunit; Signal sequence; Circular dichroism (Bruch, M.D. (1159) 81)

ATPase, F_0F_1-
c-subunit; Site-directed mutagenesis; Assembly; (*E. coli*) (Hatch, L. (1141) 183)

a subunit; Structure stabilization; Proline; Site-directed mutagenesis; Oxidative phosphorylation; (*E. coli*) (Howitt, S.M. (1144) 17)

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Chloroplast; ATP hydrolysis; F_0F_1; Binding site (Labahn, A. (1141) 288)

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Plasma membrane; Amiloride; 5-(*N*-Ethyl-*N*-isopropyl)amiloride; Glucose transport; (*S. pombe*) (Haworth, R.S. (1145) 266)

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ATPase, Ca^{2+}-; ATPase, H^+/K^+-; ATPase, Na^+/K^+-; Strophanthidin; Positive inotropic effect (Xu, K.-y. (1159) 109)

ATPase, H^+/K^+-
Parietal cell; Omeprazole; Acid secretion; Membrane recycling (Scott, D.R. (1146) 73)

Gastric acid secretion; Pantoprazole; Topology; Conformation (Shin, J.M. (1148) 223)

Acid secretion; Epitope; Topology; Baculovirus (Mercier, F. (1149) 151)

ATPase, H^+-; ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; Strophanthidin; Positive inotropic effect (Xu, K.-y. (1159) 109)

ATPase inhibitor, Na^+,K^+-
Pig urine; Bovine adrenal gland; Purification (Tamura, M. (1157) 15)

ATPase inhibitor protein
ATP synthase; Oligomycin sensitivity conferring protein (OSCP); IF_1; Subunit c; Proteolipid; DNA sequence; Protein sequence (Higuti, T. (1172) 311)

ATPase, Kdp^-
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ATPase, Na^+/K^+-
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Amiloride derivative; Structure–activity relation; Antagonist; Cation binding (David, P. (1146) 59)

Alamethicin; ATPase, Ca^{2+}-; Brain microsome; Platelet; Sarcoplasmic reticulum; Proteoliposome; Bilayer lipid membrane (Ritov, V.B. (1148) 257)

Electrogenic activity; Fluorescence; Proteoliposome; Protein orientation; Ion-exchange chromatography (Ivashchuk-Kienbaum, Y.A. (1148) 321)

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Ventricle; mRNA; Sodium ion pump; Cardiomyopathy; Pulmonary hypertension; (Human); (Heart) (Zahler, R. (1149) 189)

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Reaction sequence; Oligomycin; Kinetics; Conformational change; Ion transport (Pratap, P.R. (1151) 89)

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ATPase, H^+-; ATPase, Ca^{2+}-; ATPase, H^+/K^+-; Strophanthidin; Positive inotropic effect (Xu, K.-y. (1159) 109)

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β1 subunit; 5′ Flanking and exon sequence; (Chicken) (Takeyasu, K. (1172) 212)

ATPase phosphorylation
ATPase, Ca^{2+}-; Dimethylsulfoxide; Phosphorylation site; Inorganic phosphate (Mintz, E. (1162) 227)

ATPase subunit B
ATPase; Gene expression; Vacuole; (*S. cerevisiae*) (Pan, Y.-X. (1151) 175)

ATPase, thylakoid
Chloroplast; Photophosphorylation; Local anesthetic; Localized energy coupling (Laasch, H. (1140) 251)

Atrial natriuretic peptide
Protein kinase C; cGMP; (Rat vascular smooth muscle cell) (Kawabe, J.-i. (1175) 81)

Attachment kinetics
Matrix protein; Stress; Heat shock; (Rat); (Hepatocyte) (Mathew, S. (1178) 146)

AU-1421
Uncoupler; Oxidative phosphorylation; Protonophore; (Rat mitochondria) (Nagamune, H. (1141) 231)

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Indomethacin; Interleukin 1; Recombinant gene; Murine fibroblast cell; NF-kB; AP-1; (NIH 3T3 cell) (Williams, D.H. (1180) 9)

Autoantigen
Autoimmune; LEC rat; Protein disulfide isomerase; Calreticulin (Yokoi, T. (1158) 339)

Autoclave resistance
Vitronectin; Cell-spreading; Heat resistance; RGD sequence; Sterilization (Miyazaki, K. (1159) 215)

Autoimmune
Autoantigen; LEC rat; Protein disulfide isomerase; Calreticulin (Yokoi, T. (1158) 339)

Autoimmunity
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Autologous antibody
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Autophosphorylation
P36; Succinyl-CoA; (*D. discoideum*) (Anschutz, A.L. (1162) 40)

Protein kinase; Myosin; Phospholipid; (*Dictyostelium*) (Medley, Q.G. (1175) 7)

Calmodulin; Calcium ion/calmodulin-dependent protein kinase II; ATP binding site; Binding affinity (Sugiura, H. (1177) 270)

Autoproteolysis
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Avidin
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Biotin; Streptavidin; Drug targeting; Heparin; Biocompatibility; (Erythrocyte) (Muzykantov, V.R. (1179) 148)

Axonal nerve fiber
White matter; Neurologic abnormality; Oligodendrocyte; Brain tissue section; Immunohistochemistry (Labelle, Y. (1180) 250)

8-Azido-adenine nucleotide
ATPase, F_1-; Catalytic site; Non-catalytic site; Cooperativity; Photo affinity labeling (Edel, C.M. (1142) 327)

Azido-AMP-PNP
ATPase, F_1-; Cooperativity; Mitochondrion; Substrate binding; (Beef heart) (Eckhardt, U. (1144) 419)

Azobenzene
Bilayer lipid membrane; Photoisomerization; Absorption spectrum; Electrical property (Yamaguchi, H. (1148) 179)

AZT
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B

Bacitracin A
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Baclofen
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Bacterial bioluminescence
Hybrid luciferase; Subunit interaction; Thermal stability; Fluorescence quenching (Li, Z. (1158) 137)

Bacterial expression
Lipoxygenase; Reticulocyte; Icosanoid (Kühn, H. (1168) 73)

Bacterial inactivation
Singlet oxygen (Parker, J.G. (1157) 209)

Bacterial membrane
NMR, ^{23}Na-; Potassium ion atomic absorption; Monensin; 4-Chorophenylurethane-monensin; Ion selectivity; (*S. faecalis*); (*E. hirae*) (Rabaste, F. (1179) 166)

Bacterial photosynthesis
Energy transfer kinetics; Purple bacterium; Picosecond fluorescence; Target (compartmental) analysis; Model calculation; Free energy; (*Rb. capsulatus*) (Müller, M.G. (1142) 49)

B800–850 complex; B875 complex; Electron microscopy; (*Rhodobacter sphaeroides*) (Boonstra, A.F. (1142) 181)

Reaction center; Proton uptake; Electron transfer; (*Rb. sphaeroides*) (McPherson, P.H. (1144) 309)

Bacterial proteinase
Hageman factor; Kallikrein-kinin system; Serine proteinase; Pseudomonal elastase; Serratial E15 proteinase (Semba, U. (1180) 267)

Pseudomonal elastase; Endotoxin; Septic shock; Low resistant shock; (*Pseudomonas aeruginosa*) (Hossain Khan, M.M. (1182) 83)

Bactericide
Bacterium; Targeting; Proteoliposome; Concanavalin A; Triclosan; (*S. sanguis*); (*S. mutans*) (Jones, M.N. (1147) 251)

Bacteriochlorophyll
Reaction center; Special pair; Radical cation; Infrared spectroscopy; (Photosynthetic bacterium) (Morita, E.H. (1142) 146)

Light harvesting complex; Electrochromism; Liposome; (Photosynthetic bacteria); (*Rb. capsulatus*) (Jackson, J.B. (1144) 199)

Bacteriochlorophyll fluorescence
Antenna complex; Energy transfer; Picosecond fluorescence decay; Photosynthesis; Reaction center; Fluorescence; (*Chloroflexus*); (Green bacterium) (Müller, M.G. (1144) 161)

Bacteriophage
Coat protein; EPR; Polarizing microscopy; Macroscopic ordering; Reconstituted lipid-protein system; (M13) (Ottaviani, M.F. (1152) 171)

Lytic enzyme; Protein purification; Enzymatic activity (Caldentey, J. (1159) 44)

Bacteriophage T5-$P_{N_{25}}$
Lac operator; Fluorescent substrate; Prolylendopeptidase; Serine proteinase; (Porcine brain) (Sommer, J. (1173) 289)

Bacteriorhodopsin
Purple membrane; Delipidation; Anesthetic; Opsin shift; Acid-base equilibrium; Schiff base (Messaoudi, S. (1140) 45)

Mutant; Protein encapsulation; (*H. halobium*) (Weetall, H.H. (1142) 211)

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Energy transduction; NADH-quinone oxidoreductase; Mitochondrial disease; NADH dehydrogenase (Yagi, T. (1141) 1)

Anisotropic electron spin polarization; Photosynthesis; EPR; Electron transfer; (*R. rubrum*) (Hore, P.J. (1141) 221)

Catechin; Liposome; Membrane damage; (Tea) (Ikigai, H. (1147) 132)

Bactericide; Targeting; Proteoliposome; Concanavalin A; Triclosan; (*S. sanguis*); (*S. mutans*) (Jones, M.N. (1147) 251)

B-active lipid
Glycosphingolipid; Ganglioglycolipid; Glioma; (Rat) (Suetake, K. (1170) 25)

Baculovirus
ATPase, H^+/K^+-; Acid secretion; Epitope; Topology (Mercier, F. (1149) 151)

Nuclear polyhedrosis virus; (Spruce budworm) (Hill, J.E. (1172) 187)

Platelet-derived growth factor; Extracellular domain; cDNA cloning; PCR (Herren, B. (1173) 294)

Tyrosine kinase; Phosphorylation (Reynolds, C.H. (1181) 122)

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Band 3 oligosaccharide
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Band 4.2
Erythrocyte membrane; Pallidin; Phosphorylation; Membrane protein (Dotimas, E. (1148) 19)

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Barley
Antithrombin; Intron; Homology; (*H. vulgare*) (Rasmussen, S.K. (1172) 151)

Barnacle fiber
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Barnacle lipoxygenase
Trihydroxy fatty acid; Hatching factor; Icosanoid (Hill, E.M. (1157) 297)

Basal membrane
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Base exchange
Phosphatidylserine; Ethanolamine phosphoglyceride; Plasmalogen; Phospholipid metabolism; Glioma cell (Xu, Z. (1168) 167)

Basepairing
Ab initio calculation; Tautomerism; N^4-Hydroxycytosine; Nucleic acid base analog; Thymidylate synthase; Hydroxylamine mutagenesis (Leś, A. (1173) 39)

Basic fibroblast growth factor
bFGF; Heparitin sulfate proteoglycan; Myocardium; Plasma membrane (Ross, C.R. (1145) 219)

Basic helix loop helix protein
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Organic cation transport; Chemical modification; Substrate recognition; Brush-border membrane; (Rat kidney) (Katsura, T. (1146) 197)

Riboflavin transport; Water-soluble micronutrient transport; Intestinal transport; (Rabbit small intestine) (Said, H.M. (1148) 263)

Basolateral membrane vesicle
Urate transport; Transport; Brush-border membrane vesicle; (Rat kidney) (Polkowski, C.A. (1146) 145)

Batten's disease
ATP synthase; ATPase; Subunit c; Proteolipid; DCCD-binding protein; Ceroid-lipofuscinosis; (Human mitochondria) (Higuti, T. (1173) 87)

bc_1 complex
Electron transfer; Cytochrome c_2; Tetraheme cytochrome; Reaction center; (*Rps. viridis*) (Garcia, D. (1144) 295)

BCECF
Ammonium transport; Intracellular pH; pH, intracellular; Potassium ion channel; Proximal tubule; (Rat) (Chen, J.-G. (1149) 299)

B800–850 complex
B875 complex; Electron microscopy; Bacterial photosynthesis; (*Rhodobacter sphaeroides*) (Boonstra, A.F. (1142) 181)

B875 complex
B800–850 complex; Electron microscopy; Bacterial photosynthesis; (*Rhodobacter sphaeroides*) (Boonstra, A.F. (1142) 181)

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Behavior in solution
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Benzpyrene
3T3 cell; Microcalorimetry; Microcarrier; pH, intracellular; Sodium ion antiporter (Gebreselassie, D. (1143) 211)

BESM
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Betaine
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Beta-mutation *in cis*
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Beta-mutation *in trans*
β-Thalassemia; Beta-mutation *in cis*; HPLC; DNA sequence (Divoky, V. (1180) 173)

Beta oxidation
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Acylcarnitine; Acyl-CoA; Carnitine palmitoyltransferase I; Malonyl-CoA; Mitochondrial β-oxidation; 3-Thia fatty acid (Skrede, S. (1167) 189)

Citric acid cycle; Fatty acid; Ketogenesis; (Rat hepatocyte) (Henly, D.C. (1175) 269)

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Beta structure
Conformational transition; Alpha helix; Lipid–peptide interaction; Ion channel forming peptide; Liposome (Lee, S. (1151) 76)

Beta subunit
ATPase, Na^+/K^+-; Alpha subunit; Isoform; cDNA sequence (Lemas, M.V. (1149) 339)

BHK
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BHK-21 cell
15-Hydroperoxyicosatetraenoic acid; Prostaglandin D_2 (Kiran Kumar, Y.V. (1167) 102)

Bicarbonate
D1 protein; Electron transport; Chlorophyll fluorescence; Photosystem I; Reaction center II; (*L. gibba*) (Gong, H. (1142) 115)

Magnesium ion influx; Cotransport; Sodium ion; Chloride; Phosphate; (Rat hepatocyte) (Günther, T. (1149) 49)

Bidirectional transcription
Collagen; DNA binding protein; Promoter (Schmidt, C. (1174) 1)

Bifunctional protein
Methylenetetrahydrofolate dehydrogenase-methenyltetrahydrofolate cyclohydrolase; Gene characterization; (*Drosophila*) (Price, B.D. (1173) 94)

Biglycan
cDNA; (Aorta); (Smooth muscle cell); (Bovine) (Torok, M.A. (1173) 81)

Bikunin
α_1-Microglobulin; Nycodenz gradient; Proprotein; Subcellular vesicle; Intracellular processing (Bratt, T. (1157) 147)

Bilayer
Rehydration; Trehalose; Phospholipid; Phase transition (Viera, L.I. (1145) 157)

Macromolecule; Computer simulation; Lipid diffusion; Diffusion coefficient (Pink, D.A. (1148) 197)

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Bilayer balance model
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Bilayer curvature
Glucosylceramidase; Membrane reconstitution; Lipid binding; Acidic phospholipid; Liposome (Vaccaro, A.M. (1149) 55)

Bilayer lipid membrane
Ultrasound; Unstirred layer; Protonophore; Weak acid (Pohl, P. (1145) 279)

Mechanical breakdown; Membrane disruption; Adsorption; Electrical breakdown, irreversible; Kinetics (Klotz, K.-H. (1147) 161)

Azobenzene; Photoisomerization; Absorption spectrum; Electrical property (Yamaguchi, H. (1148) 179)

Alamethicin; ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; Brain microsome; Platelet; Sarcoplasmic reticulum; Proteoliposome (Ritov, V.B. (1148) 257)

Proton transfer; Nigericin; Monensin; Energy coupling; Boundary potential difference (Antonenko, Y.N. (1150) 45)

Ultrasound; Unstirred layer; Weak acid; pH profile; Microelectrode (Pohl, P. (1152) 155)

Bilayer membrane
Helical peptide; Membrane-spanning peptide; Peptide–bilayer interaction; Peptide assembly (Otoda, K. (1150) 1)

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Bile
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Bile acid
Placenta; Transport; Basal membrane; (Human) (Serrano, M.A. (1151) 28)

HMG-CoA reductase inhibitor; Pravastatin; Transport; Liver; (Rat) (Ziegler, K. (1153) 23)

Protein disulfide isomerase; Hepatocellular transport; Photoaffinity labeling; Bumetanide; Two-dimensional gel electrophoresis (Honscha, W. (1153) 175)

Hepatocyte; Morris rat hepatoma cell; Peroxisomal β-oxidation; Retinoid; (Rabbit) (Östlund Farrants, A.-K. (1168) 100)

Bile acid synthesis
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Bile pigment
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Bile salt
Lipase; Carboxylesterase; Substrate specificity; Enzyme kinetics; Amino acid sequence (Wang, C.-S. (1166) 1)

Bile salt concentration, inter-mixed micellar / intervesicular
Cholestasis; Critical micellar concentration (Donovan, J.M. (1182) 37)

Bilirubin
Bile pigment; Biliverdin; Anti-complement effect; Heme oxygenase (Nakagami, T. (1158) 189)

Biliverdin
Bile pigment; Bilirubin; Anti-complement effect; Heme oxygenase (Nakagami, T. (1158) 189)

Bimolecular lipid membrane
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Binary lipid bilayer
Phase diagram; Specific heat; Local structure; Correlation function (Jørgensen, K. (1152) 135)

Bindin
Phospholipid; Liposome; Recombinant protein; Sperm; Adhesive protein (Miraglia, S.J. (1145) 191)

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Membrane perturbation; Hydrophobic peptide; Pardaxin; Fluorescence spectroscopy; Membrane association; Peptide toxin; Model membrane (Saberwal, G. (1151) 43)

Botulinum; Neurotoxin; Ganglioside; Fragmentation (Kamata, Y. (1156) 213)

Heparin; Antithrombin; Thermodynamics; Calorimetry; Thermal denaturation (DeLauder, S. (1159) 141)

Lipoprotein; Receptor; HepG2 cell; Selective uptake; HDL (Brissette, L. (1165) 84)

Binding affinity
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Binding change
ATP synthase; Oxidative photophosphorylation; Photophosphorylation; Alternating site; Catalytic cooperativity (Boyer, P.D. (1140) 215)

Binding characteristics
Cationic compound; Brush-border membrane; Membrane potential; Membrane surface; Transport (Iseki, K. (1146) 121)

Binding complex
NADPH–cytochrome-*P*-450 reductase; Absorbance spectrometry; Cytochrome $P\text{-}450_{S21}$ (Iwamoto, Y. (1159) 122)

Binding discrimination
Transition state; Adenosine deaminase; Ligand binding (Grosshans, J. (1161) 28)

Binding energy
Papain; Cysteine proteinase; Hydrogen bonding; Cooperativity; Kinetic specificity; Enzyme inhibition (Liu, S. (1158) 264)

Binding inhibition
Sodium azide; ATPase, F_0F_1-; Nucleotide binding; Submitochondrial particle; (Bovine heart) (Muneyuki, E. (1144) 62)

Binding mechanism
Ligand-protein interaction; Thiamin binding protein; Binding site (Rąpała-Kozik, M. (1159) 209)

Binding model
Creatine kinase binding; Mitochondrial membrane; Adsorption; Ionic strength; Essential amino acid (Fedosov, S.N. (1153) 322)

Binding properties
LDL; Arterial injury; Proteoglycan; (Rabbit) (Srinivasan, S.R. (1168) 158)

Binding protein
Organic anion transporter; Organic sulfhydryl reagent; Dithiobis(2-nitrobenzoic acid) derivative; Loop diuretic; (Liver) (Blumrich, M. (1149) 278)

Glycyrrhetinic acid; 11β-Hydroxysteroid dehydrogenase; Microsome; (Rat liver) (Irie, A. (1160) 229)

Osteogenic growth peptide; Growth factor; Histone H4; Osteoblast; Fibroblast (Greenberg, Z. (1178) 273)

Binding site
Chloroplast; ATP hydrolysis; ATPase, H^+-; F_0F_1 (Labahn, A. (1141) 288)

Ligand-protein interaction; Thiamin binding protein; Binding mechanism (Rąpała-Kozik, M. (1159) 209)

Immunostimulating peptide; Immunostimulation; Milk peptide; Phagocytic cell (Jaziri, M. (1160) 251)

Bioactivity
Parathyroid hormone-related protein; Immunoassay (Emly, J.F. (1180) 58)

Biocompatibility
Avidin; Biotin; Streptavidin; Drug targeting; Heparin; (Erythrocyte) (Muzykantov, V.R. (1179) 148)

Biodistribution
Drug carrier; Lipid vesicle; Cell uptake; Model membrane (Blume, G. (1146) 157)

Plasminogen; Poly(ethylene glycol); Long-circulating liposome; Liposome; Cryptosome; Protein binding; Drug targeting (Blume, G. (1149) 180)

Poly(ethylene glycol); Liposome; Pharmacokinetics; Subcutaneous administration; Liposome size (Allen, T.M. (1150) 9)

Calcitonin; Sulfatide; Liposome; Blood-brain barrier (Chen, D. (1158) 244)

Ganglioside GM1; Liposome; Neoglycolipid (Park, Y.S. (1166) 105)

Laminin; Peptide; Technetium-99*m*; Melanoma; Emphyesema (Zamora, P.O. (1182) 197)

Biogenesis
Mitochondrial biogenesis; Puromycin; Protein transport; ATP; Precursor protein; (Mitochondrion) (Price, J. (1150) 89)

Biogenic amine
Neurotransmitter; Neurotransmitter transport; Transport regulation; cDNA (Rudnick, G. (1144) 249)

Biological activity
Potassium channel toxin; Amino acid sequence; (Sea anemone) (Aneiros, A. (1157) 86)

Biological hydroquinone
Antioxidant activity; Reaction rate; Stopped-flow (Mukai, K. (1157) 313)

Bioluminescence
Luciferase; Hydrogen peroxide; Emission spectrum; Flavin mononucleotide; Peroxidase; Evolution (Watanabe, H. (1141) 297)

Riboflavin; *ribG*; dCMP deaminase; (*V. fischeri*) (Lee, C.Y. (1143) 337)

Luciferase; Firefly; Luciferin; Coenzyme A; Overexpression vector (Devine, J.H. (1173) 121)

Recombinant DNA; α_2-Adrenergic receptor; Nuclear polyhedrosis virus; *Spodoptera frugiperda*; *Autographa californica* (Oker-Blom, C. (1176) 269)

Biomembrane–steroid interaction
Steroid microcompartmentation; Fluorescent probe; (Rat testis) (Kühn-Velten, W.N. (1145) 185)

Biosynthesis
PP_i : fructose-6-phosphate 1-phosphotransferase; Fructose 2,6-bisphosphate; Carbohydrate metabolism; Differentiation; (*V. mungo*); (*V. radiata*) (Ashihara, H. (1156) 123)

Phosphatidylglycerol; Phosphatidylglycerophosphoglycerol; Lipoteichoic acid; (*Streptococcus sanguis*) (Chiu, T.-h. (1166) 222)

Liver microsome; Acyl-CoA 6-desaturase; Acyl-CoA 5-desaturase; Unsaturated fatty acid (Geiger, M. (1170) 137)

Platelet-activating factor; Enzyme activity; Subcellular distribution; (*T. pyriformis*) (Tsoukatos, D.C. (1170) 258)

Biotin
Avidin; Streptavidin; Drug targeting; Heparin; Biocompatibility; (Erythrocyte) (Muzykantov, V.R. (1179) 148)

Biotin-avidin
Apamin; Toxin; NMR; Calcium-activated K^+ channel; Adrenergic receptor (Shahidi, S. (1157) 74)

Biphasic kinetics
Creatine kinase; Protein conformation; Anisotropy; Steady state fluorescence (Grossman, S.H. (1159) 29)

Bis(monoacylglycero)phosphate
Acylphosphatidylglycerol; Acyltransferase; Lysosome; Phospholipase A_1 (Huterer, S.J. (1167) 204)

2,2-Bis(*p*-chlorophenyl)-1,1-dichloroethylene (DDE)
Cholesterol; Fluorescent probe; Membrane fluidity (Antunes-Madeira, M.C. (1149) 86)

Bivalent cation
Phospholipase A_2; Arachidonic acid; Calcium; Exocytosis; Acrosome reaction; Sperm (Roldan, E.R.S. (1168) 108)

bldA
Subtilisin inhibitor; Minor codon; tRNA; Translational efficiency; (*Streptomyces*) (Ueda, Y. (1172) 262)

Bleomycin hydrolase gene
Antitumor drug; Cysteine proteinase; (*S. cerevisiae*) (Magdolen, U. (1171) 299)

Blepharismin
Light signal transduction; Photophobic response; Photoreceptor; Time-resolved fluorescence; Photoreaction; (*B. japonicum*) (Yamazaki, T. (1143) 319)

Blood
Membrane; Electric conductivity; Erythrocyte sedimentation rate; Sedimentation (Zhao, T.-X. (1153) 243)

Blood-brain barrier
P-glycoprotein; Glycoprotein; Brain capillary (Jetté, L. (1150) 147)

Calcitonin; Sulfatide; Liposome; Biodistribution (Chen, D. (1158) 244)

Blood coagulation
Lipid membrane; Dissociation constant; Ellipsometry (Giesen, P.L.A. (1147) 125)

Protein C; Monoclonal antibody; Epitope mapping (Takahashi, M. (1161) 113)

Blood group
Glycosphingolipid; Glycosphingolipid biosynthesis; Mass spectrometry; (Human kidney) (Holgersson, J. (1180) 33)

Blue copper protein
Amino acid sequence; Rusticyanin; Copper protein; Secondary structure prediction; (*T. ferrooxidans*) (Nunzi, F. (1162) 28)

B lymphocyte
Fluorescence photobleaching recovery; (Mouse) (Printen, J.A. (1148) 91)

Bombesin
Phospholipase C; Tyrosine kinase; G protein; Platelet-derived growth factor (Imoto, M. (1166) 188)

Receptor; Ligand binding; Guanine nucleotide (Wang, L.-H. (1175) 232)

Gastrin-releasing peptide; Somatostatin; Hormone; Receptor (Fanger, B.O. (1179) 300)

Bone
Homeobox; Osteoblastic cell; Vitamin D (Hodgkinson, J.E. (1174) 11)

Hyaluronate; Proteoglycan; Vitamin D; Rickets; Chick (Dickson, I.R. (1181) 15)

Bone calcification
Vitamin D; Calcium; Steroid; Receptor (Darwish, H.M. (1167) 29)

Bone marrow
Fibronectin; Integrin; Hemopoietic progenitor cell; Cytoadhesion; Interleukin 3 (Minguell, J.J. (1151) 120)

Bone morphogenetic protein 4
Nucleotide sequence; cDNA; Tissue specificity (Chen, D. (1174) 289)

Bone resorption
Osteoclast; Differentiation; Active oxygen (Suda, N. (1157) 318)

Metalloproteinase; Enzyme inhibition; TIMP-1; TIMP-2; (Osteoclast) (Hill, P.A. (1177) 71)

Borago officinalis
γ-Linolenic acid; Δ^6-Desaturase; Seed; Membrane; Acylation (Galle, A.M. (1158) 52)

Boronic acid
NMR; NMR, ^{19}F-; Serine proteinase; Nuclear Overhauser effect; Protein dynamics (Sylvia, L.A. (1163) 321)

Botulinum
Neurotoxin; Ganglioside; Binding; Fragmentation (Kamata, Y. (1156) 213)

Bound enzyme
Acid phosphatase; Kinetics; Enzyme kinetics; Cell wall; Yeast; (*Y. lipolytica*) (González, F.J. (1162) 17)

Bound ethidium bromide
Ribosome; Ribosomal subunit; Magnesium ion; Fluorescence; (*E. coli*) (Bonincontro, A. (1174) 27)

Boundary lipid
Xenobiotic; Membrane active compound; General anesthetic; Kinetics; Multiple binding site kinetics (Sandermann, Jr., H. (1150) 130)

Boundary potential difference
Proton transfer; Bilayer lipid membrane; Nigericin; Monensin; Energy coupling (Antonenko, Y.N. (1150) 45)

Bovine α-chymotrypsin
Methionine oxidation; Catalytic property; Inhibitor binding; Enzyme kinetics; Thermodynamics (Cutruzzolà, F. (1161) 201)

Bovine adrenal gland
ATPase inhibitor, Na^+,K^+-; Pig urine; Purification (Tamura, M. (1157) 15)

Bovine hemoglobin
Divinyl sulfone; Chemically modified hemoglobin; Oxygen transport; Retention time (Ilan, E. (1163) 257)

Bovine papilloma virus
Nuclear matrix; Origin of replication; Transcription activation; Harvey murine sarcoma virus; Mouse mammary tumor virus (Adom, J.N. (1171) 187)

Bovine serum albumin
Infrared spectroscopy; Protein conformation; High pressure; Immunoglobulin G (Howlett, J.R. (1159) 227)

Bovine thyroid
Dolichol; Dolichoic acid; Lipid conversion (Van Dessel, G. (1167) 307)

Brachyury T gene
rel; Oncoprotein; NFKB factor (Perrin-Schmitt, F. (1171) 129)

Bradykinin
Pseudomonal elastase; Septic shock; Hageman factor; Kallikrein-kinin system (Khan, M.M.H. (1157) 119)

Arachidonic acid release; Cystic fibrosis; Epithelial cell (Levistre, R. (1181) 233)

Brain
Cholesterol; Dolichyl monophosphate; Polyisoprenoid; Isoprene; Liver; (Rat) (Löw, P. (1165) 102)

Peroxisome; Myelin; Lignoceroyl-CoA ligase; Lignoceric acid oxidation (Singh, I. (1170) 44)

Argininosuccinate lyase; Urea cycle; Nitric oxide; B1 repeat; Upstream AUG codon; Upstream open reading frame; (Rat) (Kawamoto, S. (1173) 111)

Brain capillary
P-glycoprotein; Glycoprotein; Blood-brain barrier (Jetté, L. (1150) 147)

Brain ischemia
Common carotid occlusion; EPR; Nitric oxide; Spin trapping (Sato, S. (1181) 195)

Brain membrane
ATPase, Na^+/K^+-; Isoenzyme; Ouabain affinity; Sodium ion sensitivity; α-Linolenic acid; Diet; (Weaned rat) (Gerbi, A. (1165) 291)

Phospholipid methylation; Kinetics; Methylation; Phosphatidylethanolamine methylation; Monomethylphosphatidylethanolamine; Dimethylphosphatidylethanolamine (Reitz, R.C. (1166) 139)

Brain microsome
Alamethicin; ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; Platelet; Sarcoplasmic reticulum; Proteoliposome; Bilayer lipid membrane (Ritov, V.B. (1148) 257)

Brain tissue section
White matter; Axonal nerve fiber; Neurologic abnormality; Oligodendrocyte; Immunohistochemistry (Labelle, Y. (1180) 250)

Branched chain α-ketoacid dehydrogenase
cDNA; RACE (McKean, M.C. (1171) 109)

Branched-chain amino acid
Branched-chain 2-oxo acid dehyrogenase complex; Branched-chain 2-oxo acids; Lactate; Muscle; Tetanic contraction (Shimomura, Y. (1157) 290)

Branched-chain 2-oxo acid dehyrogenase complex
Branched-chain amino acid; Branched-chain 2-oxo acid; Lactate; Muscle; Tetanic contraction (Shimomura, Y. (1157) 290)

Branched-chain 2-oxo acid
Branched-chain 2-oxo acid dehyrogenase complex; Branched-chain amino acid; Lactate; Muscle; Tetanic contraction (Shimomura, Y. (1157) 290)

Branching reaction
Photoactive protein; Yellow protein; Photocycle intermediate; Photochromism; Light-induced reaction; Quantum yield; (*E. halophila*) (Miller, A. (1141) 190)

Breast cancer
Tamoxifen; Anti-cancer drug; Membrane–lipid interaction; Membrane fluidity; Fluorescent probe (Custódio, J.B.A. (1150) 123)

HydroxyTamoxifen; Anti-cancer drug; Antiestrogen; Membrane–lipid interaction; Membrane fluidity; Fluorescent probe (Custódio, J.B.A. (1153) 308)

Brefeldin A
Acyl-CoA; Cholesterol acyltransferase; Cholesterol esterification (Hasumi, K. (1167) 155)

B1 repeat
Argininosuccinate lyase; Urea cycle; Nitric oxide; Upstream AUG codon; Upstream open reading frame; Brain; (Rat) (Kawamoto, S. (1173) 111)

Brown adipose tissue
Potassium ion channel; Potassium ion conductance; Delayed rectifier; Ion channel selectivity; Tetraethylammonium; (Rat) (Ruß, U. (1153) 249)

Fatty acid binding protein; Arachidonic acid; Amino acid sequence; (Rat) (Dutta-Roy, A.K. (1169) 73)

Brush-border membrane
Taurine transporter; Solubilization; Reconstitution; (Human placenta) (Ramamoorthy, S. (1145) 250)

Arachidonic acid; Cholesterol; Diabetes mellitus; Fatty acid; Glycerol permeability; Phospholipid; Renal cortical membrane; Basolateral membrane; DPH; Fluorescence polarization (Ramsammy, L.S. (1146) 1)

Cationic compound; Membrane potential; Binding characteristics; Membrane surface; Transport (Iseki, K. (1146) 121)

Organic cation transport; Chemical modification; Substrate recognition; Basolateral membrane; (Rat kidney) (Katsura, T. (1146) 197)

Lipid peroxidation; Fluidity; Transport; (Intestine) (Nalini, S. (1147) 169)

Monoclonal antibody; Renal proximal tubule; Kidney-specific antigen; Western blotting (Birk, H.-W. (1148) 67)

Sodium ion transport; Nucleoside transport; Nucleoside; (Human kidney) (Gutierrez, M.M. (1149) 202)

Renal transport; Organic cation; Tetraethylammonium; Ischemic injury; Reperfusion (Maeda, S. (1150) 103)

Sodium-dependent phlorizin binding protein; Oligomeric structure; Western blot analysis; Phlorizin binding; (Kidney); (Pig) (Gerardi-Laffin, C. (1151) 99)

Organic cation; Membrane potential; Transport; (Rat intestine) (Iseki, K. (1152) 9)

Brush-border membrane vesicle
Aminopeptidase N; Crosslinking; Amino acid sequence; (Bovine kidney) (Plakidou-Dymock, S. (1145) 105)

Urate transport; Transport; Basolateral membrane vesicle; (Rat kidney) (Polkowski, C.A. (1146) 145)

Spermine; Spermidine; Putrescine; Polyamine; Polyamine uptake; (Rat intestine) (Kobayashi, M. (1151) 161)

Sodium ion cotransport; D-Mannose cotransport; (Kidney) (Silverman, M. (1153) 34)

Sodium ion/D-glucose cotransport; D-Glucose transport; Intestinal development; Temperature effect; Kinetics; (Guinea pig) (Malo, C. (1153) 299)

Buccal
Ceramide; Epidermis; Gingiva; Lipid; Palate (Chang, F. (1150) 98)

Bumetanide
Sodium ion, potassium ion–chloride cotransport; Anion dependent cation transport; (mTAL cell); (Mouse) (Kaji, D.M. (1152) 289)

Protein disulfide isomerase; Hepatocellular transport; Bile acid; Photoaffinity labeling; Two-dimensional gel electrophoresis (Honscha, W. (1153) 175)

Bundling
Microtubule; Crosslinking; Microtubule-associated protein (MacRae, T.H. (1160) 145)

Butylene-interrupted dienoic fatty acid
cis-9,*cis*-15-Octadecadienoic acid; Higher plant; Fruit pulp; (Mango) (Shibahara, A. (1170) 245)

***tert*-Butyl hydroperoxide**
Calcium ion pump; ATPase; Inhibition; Red blood cell; Glutathione peroxidase; (Human) (Rohn, T.T. (1153) 67)

Lipid peroxidation; Conjugated diene; Lung edema; Icosanoid; Indomethacin; ETYA; Microsome (Al-Mehdi, A.B. (1167) 56)

Butyrate
Alkaline phosphatase; Enzyme induction; (Cultured colon cancer cell) (Herz, F. (1180) 289)

Butyrylcholinesterase
Soman; Arrhenius plot; Hydrostatic pressure; Conformational change (Cléry, C. (1159) 295)

C

C4
sCR1; C4b; Isotype (Gibb, A.L. (1180) 313)

Cα catalytic subunit
cyclic AMP-dependent protein kinase; cDNA; Polymerase chain reaction; (Bovine) (Wiemann, S. (1171) 93)

CaCo-2 cell
Proton-coupled dipeptide transport; Dipeptide transport; Epithelium; Cephalosporin; pH, intracellular; (Intestine) (Thwaites, D.T. (1151) 237)

Okadaic acid; Apolipoprotein B; Phosphorylation (Mathur, S.N. (1168) 130)

CaCo-2 cell line
Desaturation; Icosapentaenoic acid; Elongation; HPLC; Linoleic acid; Linolenic acid; Polyunsaturated fatty acid (Chen, Q. (1166) 193)

Cadmium ion
ATPase, Ca^{2+}-; Red blood cell; Inhibition, non-competitive (Visser, G.J. (1152) 26)

Caffeine
cyclic AMP; Calcium ion, intracellular; Neuronal death; Nerve growth factor, NGF; Superior cervical ganglion (Tanaka, S. (1175) 114)

Calcineurin
Calmodulin; MLC kinase; NAD kinase; ATPase, Ca^{2+}-Mg^{2+}-; Enzyme regulation (Persechini, A. (1163) 309)

cDNA sequence; Amino acid sequence; (Human) (Muramatsu, T. (1178) 117)

Calcitonin
Sulfatide; Liposome; Blood-brain barrier; Biodistribution (Chen, D. (1158) 244)

Amyloid formation; Amyloid plaque; Alzheimer's disease (Gilchrist, P.J. (1182) 111)

Calcium
Photosystem II; Electron transport; Lanthanide; EPR (Bakou, A. (1141) 303)

Exocytosis; Fluorescent membrane probe; Platelet activation; TMA-DPH; Transbilayer movement (Heemskerk, J.W.M. (1147) 194)

GTP-binding protein; Cerebral cortex; Clathrin-coated vesicle; Optic nerve (Bielinski, D.F. (1151) 246)

Myometrium; Serum-restriction (Morgan, J.M. (1158) 98)

ATP; Phosphocreatine; Stroke; Magnesium (Schanne, F.A.X. (1158) 257)

Immune system; Lymphocyte proliferation; Immunoglobulin production; (Mouse) (Yang, S. (1158) 279)

Parvalbumin; Tandem mass spectrometry; Electrospray (Hauer, C.R. (1160) 1)

Calmodulin; Myosin light-chain kinase; Fluorescence; Mutagenesis; Protein kinase (Kilhoffer, M.-C. (1160) 8)

Calpain; p94; Cysteine proteinase; Evolution (Sorimachi, H. (1160) 55)

S100; Disulfide; Lipid; Growth factor; Neurotrophic factor (Barger, S.W. (1160) 105)

β-2-Adrenoceptor; Human melanoma; Epinephrine (Schallreuter, K.U. (1160) 127)

Smooth muscle; Phospholipase A_2; Phospholipid; ATP; Icosanoid; Signal transduction (Miyake, R. (1165) 167)

Vitamin D; Bone calcification; Steroid; Receptor (Darwish, H.M. (1167) 29)

Phospholipase A_2; Arachidonic acid; Bivalent cation; Exocytosis; Acrosome reaction; Sperm (Roldan, E.R.S. (1168) 108)

Synthetic peptide; Serum inactivation; RDS; Inactivation reversal; Pulsatile bubble surfactometer; Infant serum (Amirkhanian, J.D. (1168) 315)

Mitochondrial dehydrogenase; Insulin secretion (Rutter, G.A. (1175) 107)

Sarcoplasmic reticulum; Ryanodine receptor; Phosphorylation; Muscle; Calcium ion channel (Strand, M.A. (1175) 319)

Fura-2; Nucleotide; ATP; Suramin; Puriceptor; (Renal proximal cultured cell) (Cejka, J.-C. (1176) 7)

Hydrogen peroxide; Synaptosome; Iron; (Guinea-pig cerebral cortex) (Zoccarato, F. (1176) 208)

Mast cell; Permeabilization; Exocytosis; GTPγS; ATP (Koffer, A. (1176) 222)

Permeabilization; Exocytosis; ATP; Guanine nucleotide; G protein; Transphosphorylation; (Mast cell) (Koffer, A. (1176) 231)

Protein kinase C; β-Isotype; nPKC; Pseudosubstrate; Superoxide anion generation; p47-phox; Neutrophil (Majumdar, S. (1176) 276)

Tumor promoter; c-*fos*; Epidermal growth factor; (Hepatoma cell); (Human) (Tsukamoto, A. (1177) 31)

Diabetes; Diabetic neuropathy; (Neuroblastoma cell) (Yorek, M.A. (1177) 215)

Calcium ionophore A23187; ATP depletion; Enzyme release; Glycolysis; Oxidative phosphorylation; (Fibroblast) (Kristensen, S.R. (1179) 23)

Lead; 1,25-Dihydroxyvitamin D-3; NMR; (ROS 17/2.8 cell) (Schanne, F.A.X. (1180) 187)

Calpain; Ischemia; Reperfusion; Myocardium (Yoshida, K.-i. (1182) 215)

Leukocidin; Ethidium; Pore; Fluorescence; (*S. aureus*) (Finck-Barbançon, V. (1182) 275)

Calcium-activated K^+ channel
Apamin; Toxin; Biotin-avidin; NMR; Adrenergic receptor (Shahidi, S. (1157) 74)

Calcium affinity
Lipopeptide; Gastrin; Cholecystokinin; Peptide conformation; Lipid bilayer; Lipid transfer (Romano, R. (1151) 111)

Calcium binding protein
Photoreceptor; Guanylyl cyclase; Recoverin (Lambrecht, H.-G. (1160) 63)

Calcium-binding protein
Calretinin; Ovarian interstitial tissue; (Rat) (Pohl, V. (1160) 87)

Calcium channel
Skeletal muscle; Protein kinase; Serine phosphorylation; Phosphorylation site; Sarcoplasmic reticulum (Suko, J. (1175) 193)

Calcium chelator
Fura-2; Cytometry; (Erythrocyte) (Lew, V.L. (1148) 152)

Calcium depletion
High energy quenching; Photosystem II; Primary quinone acceptor; Redox shift; Thermoluminescence (Krieger, A. (1144) 411)

Calcium deprivation
Vitamin D metabolite; Steroid hormone receptor; (Bone) (Uhland-Smith, A. (1176) 321)

Calcium flux
Sodium nitroprusside; Calcium-45 uptake; Calcium-45 outflow; Rubidium-86 outflow; Potassium channel; Insulin release; (Rat pancreatic islet cell) (Antoine, M.-H. (1175) 293)

Calcium ion
Phospholipase C; GTP analog; Transverse tubule; Triad; (Frog); (Skeletal muscle) (Carrasco, M.A. (1152) 44)

Phospholipase D; Octyl-Sepharose chromatography; Zymogram (Abousalham, A. (1158) 1)

Microtubule; Dynein; Critical concentration; Depolymerization; Dilution (Ohba, S. (1158) 323)

Microtubule; Stability; Calmodulin (Pirollet, F. (1160) 113)

5-Aminolevulinic acid; Porphyria; Reactive oxygen species; Calcium ion homeostasis; Magnesium ion; Mitochondrial damage; (Rat liver mitochondrion) (Hermes-Lima, M. (1180) 201)

Magnesium ion; ATP; ADP; AMP; Mitochondrial inhibitor; Glycolytic inhibitor; (Opossum kidney) (Li, H.-y. (1181) 307)

Calcium ion antagonist
LDL; Acetylated LDL; Macrophage; Liver cell; Felodipine (Gustafson, S. (1181) 45)

Calcium ion binding
Surfactant protein A; Collagenase resistant fragment; Intrinsic fluorescence (Sohma, H. (1159) 150)

S-100 protein; Annexin II; p11; Calpactin I; Acrylodan (Bianchi, R. (1160) 67)

EF-hand motif; Site-directed mutagenesis; T4 lysozyme; T4 (Leontiev, V.V. (1162) 84)

Diacylglycerol; FTIR; Phosphatidylserine; Interaction (López-García, F. (1169) 264)

Calcium ion binding protein
Calpain; Schistosome; Membrane turover; Syncytial epithelium (Siddiqui, A.A. (1181) 37)

Calcium ion / calmodulin-dependent protein kinase II
Calmodulin; ATP binding site; Binding affinity; Autophosphorylation (Sugiura, H. (1177) 270)

Calcium ion channel
Patch clamp; Carcinoma cell; EGF; Conductance sublevel (Naumov, A.P. (1145) 273)

Sarcoplasmic reticulum; Ryanodine receptor; Phosphorylation; Muscle; Calcium (Strand, M.A. (1175) 319)

Calcium ion channel blocker
Anoxia; Cytosolic free calcium; LDH release; Cell viability; Verapamil; Nifedipine; Diltiazem; (Rat hepatocyte) (Gasbarrini, A. (1177) 1)

Calcium ion channel, high voltage-activated
Calcium signalling; Contraction; Proliferation; Calcium ion channel, low voltage-activated; (Aortic myocyte) (Richard, S. (1160) 95)

Calcium ion channel, low voltage-activated
Calcium signalling; Contraction; Proliferation; Calcium ion channel, high voltage-activated; (Aortic myocyte) (Richard, S. (1160) 95)

Calcium ion concentration
Phase separation; Gramicidin; Bimolecular lipid membrane; Single-channel current; Ion translocation (Mittler-Neher, S. (1152) 259)

Calcium ion concentration, intracellular
Potassium ion channel; Calcium ion dependence; Patch clamp; Depolarization; (Chick osteoclast) (Weidema, A.F. (1149) 63)

Calcium ion dependence
Potassium ion channel; Patch clamp; Depolarization; Calcium ion concentration, intracellular; (Chick osteoclast) (Weidema, A.F. (1149) 63)

Calcium ion homeostasis
5-Aminolevulinic acid; Porphyria; Reactive oxygen species; Calcium ion; Magnesium ion; Mitochondrial damage; (Rat liver mitochondrion) (Hermes-Lima, M. (1180) 201)

Calcium ion influx
Sodium fluoride; Receptor-mediated platelet activation (Ozaki, Y. (1147) 27)

Calcium ion, intracellular
Membrane fluidity; Saponin; FRAP; Intracellular calcium ion (Ishida, H. (1145) 58)

Fura-2; Multidrug transporting system; Anionic transport system; Intracellular calcium ion; Probenecid; Vanadate (Parisi, M. (1151) 1)

cyclic AMP; Caffeine; Neuronal death; Nerve growth factor, NGF; Superior cervical ganglion (Tanaka, S. (1175) 114)

Adrenal medulla; Catecholamine secretion; Intracellular calcium ion; Potassium ion channel (González-García, C. (1177) 99)

Calcium ion, intracellular store
Light adaptation; Response inactivation; Protein kinase C; Rhodopsin kinase; Rhodopsin phosphatase (Selinger, Z. (1179) 283)

Calcium ion mobilization
Prostaglandin D_2; cyclic AMP; Nonchromaffin cell; (Bovine adrenal medulla) (Okuda-Ashitaka, E. (1176) 148)

cyclic ADP-ribose; 8-Amino-cyclic ADP-ribose; Microsome; Calcium ion release antagonist; (Sea urchin egg); (*S. purpuratus*) (Walseth, T.F. (1178) 235)

Calcium ionophore A23187
ATP depletion; Calcium; Enzyme release; Glycolysis; Oxidative phosphorylation; (Fibroblast) (Kristensen, S.R. (1179) 23)

Cysteine proteinase inhibitor; Cataract; E64; E64c; E64d; (Lens culture) (Azuma, M. (1180) 215)

Calcium ion protein
Plasma membrane; Catch muscle; (Molluscan smooth muscle); (*M. edulis*) (Yamanobe, T. (1149) 166)

Calcium ion pump
ATPase; Inhibition; Red blood cell; *tert*-Butyl hydroperoxide; Glutathione peroxidase; (Human) (Rohn, T.T. (1153) 67)

Calcium ion release antagonist
cyclic ADP-ribose; 8-Amino-cyclic ADP-ribose; Calcium ion mobilization; Microsome; (Sea urchin egg); (*S. purpuratus*) (Walseth, T.F. (1178) 235)

Calcium ion-transport ATPase
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Calcium ion uptake
Glycoprotein, 53 kDa; Monoclonal antibody (Matthews, I. (1146) 265)

Manganese ion; Platelet activating factor; Cytochrome *P*-450 (Montero, M. (1177) 127)

Calcium mobilization
cyclic ADP-ribose; Second messenger; ADP-ribosyl cyclase; cyclic ADP-ribose hydrolase (Lee, H.C. (1164) 68)

Calcium-45 outflow
Sodium nitroprusside; Calcium-45 uptake; Rubidium-86 outflow; Calcium flux; Potassium channel; Insulin release; (Rat pancreatic islet cell) (Antoine, M.-H. (1175) 293)

Calcium release
Inositol 1,4,5-trisphosphate; Microsome; Tetrahexyl ammonium ion; Inhibition; (Porcine cerebellum) (Sayers, L.G. (1152) 177)

Calcium signalling
Contraction; Proliferation; Calcium ion channel, low voltage-activated; Calcium ion channel, high voltage-activated; (Aortic myocyte) (Richard, S. (1160) 95)

Calcium store
Intracellular calcium regulation; Inositol 1,4,5-trisphosphate; Mast cell; RBL cell (Mohr, F.C. (1147) 105)

Intracellular calcium regulation; Inositol trisphosphate; Mast cell; RBL cell (Hershey, P.E.C. (1147) 115)

Calcium-45 uptake
Sodium nitroprusside; Calcium-45 outflow; Rubidium-86 outflow; Calcium flux; Potassium channel; Insulin release; (Rat pancreatic islet cell) (Antoine, M.-H. (1175) 293)

Caldesmon
Calmodulin; Phospholamban; NMR, ^{1}H-; Interaction (Gao, Y. (1160) 22)

Tropomyosin; Cooperativity; Amino-terminal-deleted tropomyosin; Smooth muscle; Fibroblast (Novy, R.E. (1162) 255)

Calmodulin
Phospholamban; Phosphorylation; Sarcoplasmic reticulum; Affinity labeling; Limited proteolysis (Strasburg, G.M. (1149) 249)

Myosin light-chain kinase; Calcium; Fluorescence; Mutagenesis; Protein kinase (Kilhoffer, M.-C. (1160) 8)

Protein crystallization; Alpha helix (Bayley, P.M. (1160) 16)

Phospholamban; Caldesmon; NMR, ^{1}H-; Interaction (Gao, Y. (1160) 22)

Microtubule; Stability; Calcium ion (Pirollet, F. (1160) 113)

Cancer; Gene regulation; Promoter (Koller, M. (1163) 1)

MLC kinase; Calcineurin; NAD kinase; ATPase, Ca^{2+}-Mg^{2+}-; Enzyme regulation (Persechini, A. (1163) 309)

DNA sequence; Genomic organization; (*N. crassa*) (Melnick, M.B. (1171) 334)

Calcium ion/calmodulin-dependent protein kinase II; ATP binding site; Binding affinity; Autophosphorylation (Sugiura, H. (1177) 270)

Calmodulin antagonist
Mitochondrion; Protein synthesis; Respiration (Vijayasarathy, C. (1143) 38)

Pulmonary surfactant; Phosphatidylcholine secretion; Protein kinase C inhibitor; Purinoceptor, P_2 (Griese, M. (1167) 85)

Calmodulin-binding protein
Nucleus; Protein phosphatase, type 2B; (*S. cerevisiae*) (Hiraga, K. (1177) 25)

Calorimetry
Electrostatics; Pressure; Dimensionality; Phospholipid (Montich, G. (1146) 17)

Heparin; Antithrombin; Binding; Thermodynamics; Thermal denaturation (DeLauder, S. (1159) 141)

α_2-Macroglobulin; Trypsin; Light scattering; DSC; Conformational change (Middaugh, C.R. (1161) 328)

Calpactin
Annexin; Lipocortin; Posttranslational modification (Moss, S.E. (1160) 120)

Calpactin I
S-100 protein; Annexin II; p11; Calcium ion binding; Acrylodan (Bianchi, R. (1160) 67)

Calpain
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Protein kinase C; Cleavage-site-specific antibody; Limited proteolysis (Kikuchi, H. (1162) 171)

Calpastatin; Filamin; Myoblast fusion (Kwak, K.B. (1175) 243)

Calpastatin; Erythrocyte; Reticulocyte (Inomata, M. (1178) 207)

Schistosome; Calcium ion binding protein; Membrane turover; Syncytial epithelium (Siddiqui, A.A. (1181) 37)

Ischemia; Reperfusion; Calcium; Myocardium (Yoshida, K.-i. (1182) 215)

Calpain I
ATP; Platelet; Thrombin (Ishii, H. (1175) 37)

Calpastatin
Calpain; Filamin; Myoblast fusion (Kwak, K.B. (1175) 243)

Calpain; Erythrocyte; Reticulocyte (Inomata, M. (1178) 207)

Calphostatin C
Protein kinase C inhibitor; Phospholipase A_2; Aggregation; Neutrophil activation; PAF (Svetlov, S. (1177) 75)

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Calponin phosphorylation
Calponin isoform; Smooth muscle; Muscle contraction (Bárány, M. (1179) 229)

Calreticulin
Autoimmune; Autoantigen; LEC rat; Protein disulfide isomerase (Yokoi, T. (1158) 339)

Calretinin
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Calyculin A
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camD
5-*exo*-Hydroxycamphor dehydrogenase; Terpene alcohol dehydrogenase; Zinc-containing alcohol dehydrogenase; Nucleotide sequence; (*P. putida*) (Aramaki, H. (1174) 91)

CAMPATH-1 antigen
CDw52 antigen; Epididymal protein (Perry, A.C.F. (1171) 122)

Camptothecin
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Canalicular membrane
Glutathione *S*-transferase; Glutathione peroxidase; Plasma membrane; Sulfhydryl reagent; (Rat); (Liver) (Horbach, M.E. (1148) 61)

Cancer
Calmodulin; Gene regulation; Promoter (Koller, M. (1163) 1)

Lipid metabolism; Lipoprotein lipase; Fatty acid synthase; Hormone-sensitive lipase; Gene expression (Thompson, M.P. (1180) 236)

Candida cylindracea
Lipase; Isoenzyme; Enzyme purification; Enzyme characterization; *Candida rugosa* (Rúa, M.L. (1156) 181)

Candida rugosa
Lipase; Isoenzyme; Enzyme purification; Enzyme characterization; *Candida cylindracea* (Rúa, M.L. (1156) 181)

CAOV-3
OVCAR-3; EGF receptor; Receptor phosphorylation; Cell proliferation (Zhou, L. (1180) 130)

Captured volume
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Carbachol
Erythrocyte; Cation channel; Acetylcholine receptor; Nicotine; Patch clamp (Bennekou, P. (1147) 165)

Carbamylation
Methylisocyanate; Actin polymerization (Kuckel, C.L. (1162) 143)

Carbamylcholine
Raman spectroscopy; Acetylcholine receptor; (+)-Tubocurarine (Aslanian, D. (1148) 291)

Carbohydrate chain
Monoclonal antibody; Light chain; Adenocarcinoma; (Human) (Tachibana, H. (1182) 257)

Carbohydrate metabolism
PP_i : fructose-6-phosphate 1-phosphotransferase; Fructose 2,6-bisphosphate; Biosynthesis; Differentiation; (*V. mungo*); (*V. radiata*) (Ashihara, H. (1156) 123)

Glycogen phosphorylase; Isozyme; Amino acid substitution (Hudson, J.W. (1164) 197)

Carbon dioxide
Carbonic anhydrase; Proton transfer; Oxygen-18 (Taoka, S. (1159) 274)

Carbon flux
3-Hydroxy-3-methylglutaryl-CoA; Ketogenesis; Top-down metabolic control analysis; (Rat liver mitochondrion) (Quant, P.A. (1156) 135)

Carbonic anhydrase
Carbon dioxide; Proton transfer; Oxygen-18 (Taoka, S. (1159) 274)

Lidocaine; Cationic drug; Shape change; Local anesthetic; (Human erythrocyte) (Nishiguchi, E. (1176) 95)

Carbonic anhydrase II
Salt bridge reagent; Cyanogen; Molecular modeling (Ghenbot, G. (1161) 59)

Carbon tetrachloride model
Acute liver damage; Liver fibrosis; Fibronectin, ED-A positive; In situ hybridization; mRNA (Odenthal, M. (1181) 266)

Carbonyl cytochrome
Cytochrome *o*; Quinol oxidase; Oxygen binding; Potentiometry; (*E. coli*) (Bolgiano, B. (1141) 95)

Carbonyl reductase
Acetohexamide reduction; Kinetic mechanism; Drug-metabolizing enzyme; (Rabbit kidney) (Higuchi, T. (1158) 23)

Carboxylesterase
Lipase; Bile salt; Substrate specificity; Enzyme kinetics; Amino acid sequence (Wang, C.-S. (1166) 1)

Nucleotide sequence; cDNA sequence; Es-male; (Mouse liver) (Aida, K. (1174) 72)

Carboxyl ester hydrolase
Retinoid; Vitamin A; Lipase (Harrison, E.H. (1170) 99)

Carboxyl ester lipase
Lysophospholipase; Pancreas (Duan, R.-D. (1167) 326)

Carboxylic acid transport
Proton movement; Lactate; Succinate; Citrate; Proton/carboxylate stoichiometry; (yeast); (*C. utilis*) (Cássio, F. (1153) 59)

Carboxypeptidase
Tubulin; Detyrosination; (Brain); (Muscle) (Alonso, A.C. (1163) 26)

Carcinogenesis
Polymerase chain reaction; Transcription; Cytochrome *P*-450 (Traber, P.G. (1171) 167)

Carcinoma
Glyoxalase I; Glutathione *S*-transferase; Tumor marker; Colon; (Human) (Ranganathan, S. (1182) 311)

Carcinoma cell
Patch clamp; Calcium ion channel; EGF; Conductance sublevel (Naumov, A.P. (1145) 273)

Cardiac
Triacylglycerol; Lipolysis; Fatty acid metabolism; NMR, ^{1}H- (Madden, M.C. (1169) 176)

Cardiac energy metabolism
β-Guanidinopropionic acid; Creatine; NMR, ^{31}P-; Creatine kinase; (Isolated perfused rat heart) (Unitt, J.F. (1143) 91)

Cardiac myocyte
Gene expression; Prodynorphin mRNA; Prodynorphin-derived peptide (Canossa, M. (1172) 247)

Cardiac sarcolemmal vesicle
Sodium–calcium ion exchange; Site-directed polyclonal antibody; Protein structure (Hale, C.C. (1160) 293)

Cardiolipin
Adriamycin; Anthracycline; Cardiotoxicity; LUV; Membrane potential (Praet, M. (1148) 342)

Fat deficiency; Fatty acid; Isomer; Linoleic acid; Linolenic acid; Positional distribution; (Rat) (Wolff, R.L. (1168) 285)

Cardiomyocyte
Mitochondrion; ADP; Compartmentation; Creatine kinase; Oxidative phosphorylation (Saks, V.A. (1144) 134)

Glucose transport; Sulfhydryl group; Phenylarsine oxide; Hydrogen peroxide; Insulin (Fischer, Y. (1153) 97)

Protein synthesis; Translational control; Phosphoinositide hydrolysis; Endothelin; Protein kinase C; pH, intracellular (Sugden, P.H. (1175) 327)

Cardiomyopathy
Ventricle; mRNA; Sodium ion pump; ATPase, Na^+/K^+-; Pulmonary hypertension; (Human); (Heart) (Zahler, R. (1149) 189)

Ubiquinone; 3-Hydroxy-3-methylglutaryl-coenzyme A reductase; Lovastatin; Fenofibrate; (Syrian Hamster) (Bélichard, P. (1169) 98)

Alcohol; ATP synthase; Mitochondrion; Regulation; (Heart) (Das, A.M. (1181) 295)

Cardiotoxicity
Adriamycin; Anthracycline; Cardiolipin; LUV; Membrane potential (Praet, M. (1148) 342)

Adriamycin; Adriamycin derivative; Daunorubicin; Anthracycline; Free radical; (Mouse) (Praet, M. (1149) 79)

Carnitine
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Carnitine carrier
Reconstitution; Thiol modification; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (1140) 53)

Carnitine palmitoyltransferase
Fatty acid oxidation; Membrane, outer; Ketogenesis; Mitochondrion; 3-Hydroxy-3-methylglutaryl-coenzyme A synthase; (Mammalian liver) (Guzmán, M. (1167) 227)

Carnitine palmitoyltransferase I
Acylcarnitine; Acyl-CoA; Malonyl-CoA; Mitochondrial β-oxidation; 3-Thia fatty acid; Beta oxidation (Skrede, S. (1167) 189)

L-Carnitine
Acetyl-L-carnitine; Propionyl-L-carnitine; Molecular packing; Membrane fluidity; Erythrocyte (Arduini, A. (1146) 229)

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Superoxide radical; Hydroxyl radical; Pulse radiolysis (Pavlov, A.R. (1157) 304)

β-Carotene
Photosystem II; Reaction center; Photoinhibition; Primary donor; P680 (De Las Rivas, J. (1142) 155)

Linolenic acid; Lipid photoperoxidation; Quercetin; Reactive oxygen species; (*Phaseolus vulgaris* L.) (Ferrari-Iliou, R. (1166) 48)

Intestinal perfusion; Portal vein; Retinoic acid; Polar metabolite (Wang, X.-D. (1167) 159)

Lipoxygenase; Inhibition; Peroxidation (Lomnitski, L. (1167) 331)

Carotenoid
Light harvesting complex; Electrochromism; Membrane potential; Liposome; (Photosynthetic bacteria); (*Rb. capsulatus*) (Goodwin, M.G. (1144) 191)

Membrane fluidity; Spin label; EPR (Subczynski, W.K. (1150) 173)

Carotenoid band shift
Membrane potential; Photosynthetic bacterium; Light harvesting complex; (*Rhodospirillum*) (Matsuura, K. (1140) 293)

Carotenoid de-epoxidation
Fluorescence quenching; Photosystem II; Localized proton; Uncoupler (Finazzi, G. (1142) 123)

Cartilage
Aggrecan; Proteinase; Proteoglycan; Substrate specificity (Cs.-Szabó, G. (1162) 266)

Chondrocyte; Cytokine; Arthritis; Macrophage colony-stimulating factor; Interleukin 1 (Campbell, I.K. (1182) 57)

Fibronectin; Fragment; Proteinase; Chondrolysis; Proteoglycan (Xie, D.-l. (1182) 189)

Cartilage degradation
Neutrophil; Elastase; Reactive oxygen species (Iwamura, H. (1156) 295)

Casein kinase-2
$p34^{cdc2}$; Phosphorylation (Meggio, F. (1164) 223)

Gene expression; Protein characterization; Sequence comparison; (Maize) (Boldyreff, B. (1173) 32)

Phosphatidylinositol 4,5-bisphosphate; Protein phosphorylation; Magnesium ion; (Erythrocyte); (Rabbit) (Chauhan, V.P.S. (1177) 318)

Catabolism
Total parenteral nutrition; Lipoprotein; Apoprotein; (Rat) (Hajri, T. (1166) 84)

Proapolipoprotein AI; Fractional catabolic rate; HDL; Isoelectric focusing; Isoprotein; Turnover study (Saku, K. (1167) 257)

Catabolite repression
cyclic AMP; Glucose; Adenylate cyclase; (*A. viscosus*) (Watson, E.L. (1178) 243)

Catalase
Manganese; Difference spectroscopy; Manganese catalase; Photosystem II (Wells, W. (1144) 346)

Ascorbic acid; Dehydroascorbic acid reductase; Se-dependent glutathione peroxidase; Glutathione transferase; Hydrogen peroxide; (Insect) (Summers, C.B. (1156) 235)

NAD(P)H : quinone reductase; DT-Diaphorase; Antioxidant enzyme; Superoxide dismutase; Glutathione reductase; Oxygen toxicity; Lung (Whitney, P.L. (1156) 275)

Poly(1-benzyl-L-histidine); Two-dimensional crystal; Air/water interface; Monolayer; Annealing (Sato, A. (1162) 54)

Glutathione; NADPH; Hydrogen peroxide; Glucose-6-phosphate dehydrogenase; Oxidation; (Erythrocyte) (Scott, M.D. (1181) 163)

Catalytic cooperativity
ATP synthase; Oxidative photophosphorylation; Photophosphorylation; Binding change; Alternating site (Boyer, P.D. (1140) 215)

Catalytic efficiency
Enzyme kinetics; Metabolic pathway; Evolution; Enzyme function (Pettersson, G. (1164) 1)

Catalytic property
Bovine α-chymotrypsin; Methionine oxidation; Inhibitor binding; Enzyme kinetics; Thermodynamics (Cutruzzolà, F. (1161) 201)

Catalytic site
ATPase, F_1-; Non-catalytic site; Cooperativity; 8-Azido-adenine nucleotide; Photo affinity labeling (Edel, C.M. (1142) 327)

Catalytic step
Chloroplast; Fatty acid synthase, type II; Fatty acid synthesis; (*E. gracilis*) (Worsham, L.M.S. (1170) 62)

Catalytic subunit
ATP synthase; ATPase, F_1-; Enzyme reconstitution; Heterodimer; (*R. rubrum*) (Andralojc, P.J. (1143) 51)

Cataract
Lens protein; Aging; Mixed disulfide; γ-Glutamylcysteine; Glutathione (Dickerson, Jr., J.E. (1157) 141)

Malondialdehyde; Lipid peroxidation; Lens crystallin; Aspirin; Ibuprofen (Riley, M.L. (1158) 107)

Cysteine proteinase inhibitor; Calcium ionophore A23187; E64; E64c; E64d; (Lens culture) (Azuma, M. (1180) 215)

Lens crystallin; Aspirin; Disulfide bonding (Qin, W. (1181) 103)

CAT assay
Human elastin gene; Transcription; Transforming growth factor β; Tissue-specific regulation (Marigo, V. (1172) 31)

Catch muscle
Calcium ion protein; Plasma membrane; (Molluscan smooth muscle); (*M. edulis*) (Yamanobe, T. (1149) 166)

Catechin
Liposome; Bacterium; Membrane damage; (Tea) (Ikigai, H. (1147) 132)

Catecholamine
Endothelial cell; Permeability regulation; β-Adrenoceptor subtype; Sympathomimetics (Zink, S. (1178) 286)

Catecholamine secretion
Adrenal medulla; Intracellular calcium ion; Calcium ion, intracellular; Potassium ion channel (González-García, C. (1177) 99)

Catenin, β-
Cell adhesion; Embryogenesis; (*U. caupo*); (*T. gratilla*) (Rosenthal, E. (1173) 337)

Cathepsin B
cDNA; Polymorphism; Nucleotide sequence; (Bovine) (Mordier, S. (1174) 305)

Urokinase-type plasminogen activator; Urokinase-type plasminogen activator receptor; Ovarian cancer; Membrane protein (Kobayashi, H. (1178) 55)

Local hyperacidity; Melanoma; Tumor invasiveness; (B16F10 cell) (Young, P.R. (1182) 69)

Cation
Divalent cation; NADP(H) binding site; Transhydrogenase; Enzyme function; (Beef heart mitochondria) (Sazanov, L.A. (1144) 225)

Cation binding
Amiloride derivative; Structure–activity relation; Antagonist; ATPase, Na^+/K^+- (David, P. (1146) 59)

Cation channel
Erythrocyte; Acetylcholine receptor; Carbachol; Nicotine; Patch clamp (Bennekou, P. (1147) 165)

Cation dependence
Insect; Lepidoptera; Amino acid transport; Potassium; Symport; Cotransport (Hennigan, B.B. (1148) 209)

Cationic compound
Brush-border membrane; Membrane potential; Binding characteristics; Membrane surface; Transport (Iseki, K. (1146) 121)

Cationic drug
Lidocaine; Shape change; Local anesthetic; Carbonic anhydrase; (Human erythrocyte) (Nishiguchi, E. (1176) 95)

Cation transport
Erythrocyte; Band 3; DNDS; DIDS; Monovalent cation transport; Sickle cell (Johnson, R.M. (1148) 7)

Membrane potential; Transport kinetics; Uptake rate; (Yeast); (*S. cerevisiae*) (Borst-Pauwels, G.W.F.H. (1152) 201)

Cation transport kinetics
Membrane potential; Surface potential; Cotransport (Borst-Pauwels, G.W.F.H. (1145) 15)

C4b
sCR1; C4; Isotype (Gibb, A.L. (1180) 313)

***cbl C*, *cbl D*, and *cbl E* mutant fibroblasts**
Cobalamin metabolism; Cob(III)alamin reductase; Cyanocobalamin β-ligand transferase; Rat liver (Pezacka, E.H. (1157) 167)

CCAAT/enhancer-binding protein
Essential fatty acid; Stearoyl-CoA desaturase; Development; mRNA (DeWille, J.W. (1170) 291)

***cccA* gene**
Cytochrome *c*; Protein sequence; (Thermophilic bacterium PS3) (Fujiwara, Y. (1144) 213)

CCMV
Coat; Protein; N-terminal; Nucleotide; Interaction (Wolfs, C.J.A.M. (1172) 1)

CD
Amphiphilic β-structural peptide; Peptide; Phospholipid–peptide interaction; Liposome; Hemolysis; Antimicrobial activity (Ando, S. (1147) 42)

CD14
Cholesterol; Monocyte; Fc receptor; Glycophospholipid-anchored glycoprotein (Esfahani, M. (1149) 217)

Langmuir-Blodgett film; Reaction center; Thermal stability; Protein secondary structure (Nicolini, C. (1158) 273)

Cdc2 kinase
PCTAIRE; Differentiation; Cell cycle; (*D. discoideum*) (Michaelis, C. (1179) 117)

CDP-diacylglycerol
Phosphatidic acid; Phosphatidylinositol; Selectivity; (Potato tuber); (Pea leaf); (Soya bean) (Justin, A.-M. (1165) 141)

CDw52 antigen
CAMPATH-1 antigen; Epididymal protein (Perry, A.C.F. (1171) 122)

Cecum
pH; Sodium ion–proton exchanger; (Chicken) (Calonge, M.L. (1153) 213)

Cell
Asbestos; Mesothelioma; Adhesion; Cell surface thermodynamics; Contact angle (Lee, M.M. (1181) 223)

Cell adaptation
Hypertonic stress; Aldose reductase; (EUE cell) (Ferraretto, A. (1175) 283)

Cell adhesion
Embryogenesis; Catenin, β-; (*U. caupo*); (*T. gratilla*) (Rosenthal, E. (1173) 337)

Cell-cell communication
Fibroblast pneumonocyte factor; Transforming growth factor β; Surfactant; Fetal lung (Nielsen, H.C. (1175) 95)

Cell culture
Acetylcholinesterase; Chick embryo; Fibroblast; Myogenesis; Plasma membrane; Skeletal muscle (Elson, H.F. (1156) 78)

Amino acid deficiency; Protein synthesis; Precursor; Cell growth; (HeLa cell) (Wheatley, D.N. (1164) 209)

HDL; Immunoaffinity chromatography; Apolipoprotein; Reverse cholesterol transport (Oikawa, S. (1165) 327)

Glucocorticoid receptor; Dexamethasone; Arachidonic acid; Prostaglandin I_2; Smooth muscle cell (Petrichenko, I. (1166) 183)

Cell cycle
Immunoglobulin superfamily; Interleukin 1 receptor; Cell proliferation; T cell; Cytokine; (Human) (Tominaga, S.-i. (1171) 215)

Transcription; Posttranscriptional regulation; Methylenetetrahydrofolate; Mitogen (Peri, K.G. (1171) 281)

Thymosin β_4; Actin-binding peptide; Proliferation; Human leukemia; Hepatectomy (Otero, A. (1176) 59)

Poly(ADP-ribosyl)transferase; Thymocyte; Enzyme expression; (Rat) (Wein, K.-H. (1176) 69)

Two-cell block; $p34^{cdc2}$; Superoxide dismutase; Thioredoxin; Oxidative stress; (Mouse embryo) (Natsuyama, S. (1176) 90)

Cell growth; Immunoglobulin superfamily; Interleukin 1 receptor; Glycosylation; Protein secretion (Takagi, T. (1178) 194)

Cdc2 kinase; PCTAIRE; Differentiation; (*D. discoideum*) (Michaelis, C. (1179) 117)

Cell death
ATP, extracellular; Isolated hepatocyte; Protein synthesis (Tinton, S.A. (1176) 1)

Cell deformation
Cell electrofusion; Membrane electroporation; Intercellular contact; Membrane fusion (Abidor, I.G. (1152) 207)

Cell electrofusion
Membrane electroporation; Intercellular contact; Cell deformation; Membrane fusion (Abidor, I.G. (1152) 207)

Cell-free system
NADPH oxidase; Superoxide; (Pig neutrophil) (Yu, L. (1178) 73)

Cell fusion
Electrical breakdown; Hemolysis; Divalent cation; Phospholipid asymmetry; Osmotic swelling; (Erythrocyte) (Song, L.Y. (1148) 30)

Cell growth
Human gingival fibroblasts; Samarium-cobalt magnet; Energy metabolism, 0.2 T magnetic field (Yamaguchi, H. (1156) 302)

Amino acid deficiency; Protein synthesis; Precursor; Cell culture; (HeLa cell) (Wheatley, D.N. (1164) 209)

Cell cycle; Immunoglobulin superfamily; Interleukin 1 receptor; Glycosylation; Protein secretion (Takagi, T. (1178) 194)

Cellobiose oxidase
Hydrogen peroxide; Heme; Flavin; Lignocellulose; Oxidoreductase; (*P. chrysosporium*) (Henriksson, G. (1144) 184)

Cell proliferation
Phospholipase A_2; Icosanoid; Pancreas; Cytosol; (Porcine) (Tokumoto, H. (1169) 236)

Immunoglobulin superfamily; Interleukin 1 receptor; T cell; Cytokine; Cell cycle; (Human) (Tominaga, S.-i. (1171) 215)

Protein kinase C; Tocopherol; Tocotrienol; Antioxidant; (Smooth-muscle cell) (Chatelain, E. (1176) 83)

OVCAR-3; CAOV-3; EGF receptor; Receptor phosphorylation (Zhou, L. (1180) 130)

Heparin; Fibroblast; Collagen (Ferrao, A.V. (1180) 225)

Cell-spreading
Vitronectin; Heat resistance; Autoclave resistance; RGD sequence; Sterilization (Miyazaki, K. (1159) 215)

Cell surface
Dielectrophoresis; Membrane conductivity; Surface charge; (Friend erythroleukemia cell) (Gascoyne, P.R.C. (1149) 119)

Cell surface thermodynamics
Asbestos; Mesothelioma; Cell; Adhesion; Contact angle (Lee, M.M. (1181) 223)

Cell swelling
Adenosine deaminase deficiency; Severe combined immunodeficiency disease; Deoxyadenosine toxicity; Human T-lymphoblast; Cytoskeleton; (CCRF-CEM cell) (Bagnara, A.S. (1180) 163)

Cellular distribution
Heat-shock protein; Protein isolation; Amino acid sequence; (*N. crassa*) (Vassilev, A.O. (1156) 1)

Cellular pH
NMR, ^{31}P-; Polyphosphate metabolism; Osmotic stress; (*N. crassa*) (Yang, Y.C. (1179) 141)

Cellular retinol-binding protein, type II
Retinol; Duodenum; (Chick) (Goda, T. (1168) 153)

Cellular senescence
Endothelial cell; Fibronectin; Alternative splicing; (Human) (Pagani, F. (1173) 172)

Cellular swelling
O_2^- release; Plasma membrane; Cytoskeleton; Neutrophil; (Guinea pig) (Miyahara, M. (1177) 61)

Cellulase
Cellulose; (*T. reesei*) (Ståhlberg, J. (1157) 107)

Cellulose
Cellulase; (*T. reesei*) (Ståhlberg, J. (1157) 107)

Cell uptake
Drug carrier; Lipid vesicle; Model membrane; Biodistribution (Blume, G. (1146) 157)

Cell viability
Polyunsaturated fatty acid; Hepatic fatty acid synthesis; Lipid peroxidation; Long-term culture; (Rat hepatocyte culture) (Mikkelsen, L. (1166) 99)

Anoxia; Cytosolic free calcium; LDH release; Calcium ion channel blocker; Verapamil; Nifedipine; Diltiazem; (Rat hepatocyte) (Gasbarrini, A. (1177) 1)

Cell volume control
Osmoregulation; GTP-binding protein; Small GTP-binding protein; Vesicular trafficking; (*D. salina*) (Memon, A.R. (1179) 11)

Cell wall
Acid phosphatase; Kinetics; Enzyme kinetics; Bound enzyme; Yeast; (*Y. lipolytica*) (González, F.J. (1162) 17)

Cell wall protein
Glycoprotein; Flocculent yeast; Western blot; (*K. marxianus*) (Fernandes, P.A. (1159) 67)

Cell wall turnover
Growth; Temperature; (Bacillus subtilis) (Wu, T.-L. (1156) 173)

Central nervous system
Kinesin; Anterograde transport; Retina; Ganglion cell; (Rabbit) (Morin, P.J. (1146) 275)

Infrared spectroscopy; Multiple sclerosis; Multiple sclerosis plaque; (Human) (Choo, L.-P. (1182) 333)

Cephalosporin
Proton-coupled dipeptide transport; Dipeptide transport; Epithelium; CaCo-2 cell; pH, intracellular; (Intestine) (Thwaites, D.T. (1151) 237)

Ceramide
Lipid transfer; Lipid sorting; Golgi apparatus; Endoplasmic reticulum (Moreau, P. (1146) 9)

Mesophase formation; Cholesterol; Lipid packing model; (Stratum corneum) (Parrott, D.T. (1147) 273)

Buccal; Epidermis; Gingiva; Lipid; Palate (Chang, F. (1150) 98)

Neutral glycosphingolipid; Phytosphingosine; α-Hydroxy fatty acid; Menstrual cycle; Genital tract; (Human female) (Takamatsu, K. (1165) 177)

Sphingomyelin; Monensin; BHK (Kallen, K.-J. (1166) 305)

Ganglioside; Ganglioside biosynthesis; Ganglioside shedding; Murine lymphoma cell (Li, R. (1170) 283)

Ceramide monohexoside
Glycolipid; Acylglucosylceramide; Epidermoside; Epidermal cell; Cultured human keratinocyte; (Human) (Hamanaka, S. (1167) 1)

c-*erbA*
Thyroid hormone responsive element; Phospho*enol*pyruvate carboxykinase; TRAP; Transcriptional control (Schmidt, E.D.L. (1172) 82)

Cerebral cortex
GTP-binding protein; Calcium; Clathrin-coated vesicle; Optic nerve (Bielinski, D.F. (1151) 246)

Platelet-activating factor; Cholinephosphotransferase; Acetyltransferase; Microsome; (Rabbit) (Baker, R.R. (1170) 157)

Ceroid-lipofuscinosis
ATP synthase; ATPase; Subunit c; Proteolipid; DCCD-binding protein; Batten's disease; (Human mitochondria) (Higuti, T. (1173) 87)

Cerulenin
Acyl-CoA elongase; Membrane; 3-Ketoacyl-CoA synthase; (*A. porrum*) (Schneider, F. (1152) 243)

Cervical epithelium
Sulfatide; Ganglioside; Uterine endometrium; Fallopian tube (Takamatsu, K. (1170) 232)

c-*ets*
TIMP; AP-1; c-*fos*; c-*jun*; PEA3; Transcriptional regulation (Edwards, D.R. (1171) 41)

CF_0F_1
ATPase, H^+-; Chloroplast; Enzyme kinetics (Labahn, A. (1144) 170)

CF_1
ATPase; Photophosphorylation; Proton channel; Reconstitution; Subunit (Engelbrecht, S. (1140) 157)

c-*fos*
TIMP; AP-1; c-*jun*; c-*ets*; PEA3; Transcriptional regulation (Edwards, D.R. (1171) 41)

β_2-Adrenergic receptor; cyclic AMP response element; DNA methylation; Serum condition (Moens, U. (1173) 63)

Tumor promoter; Calcium; Epidermal growth factor; (Hepatoma cell); (Human) (Tsukamoto, A. (1177) 31)

CFTR
Microsome; Endoplasmic reticulum; Light scattering; Chloride conductance; Nucleotide; (Pancreas); (Porcine) (Bégault, B. (1152) 319)

Chain-shortening
Desaturation; Deuterium; Absorption; Saturated fatty acid; (Human) (Emken, E.A. (1170) 173)

Channel gating
Cyclic nucleotide-activated channel; Patch clamp; (Olfactory cell) (Kolesnikov, S.S. (1150) 63)

Quisqualate; L-Glutamate receptor; Ketamine; High pressure; (Locust muscle) (Macdonald, A.G. (1151) 13)

Channel number
Chloride channel; Patch clamp; Single-channel current; Kidney (Marunaka, Y. (1153) 105)

Chaotropic anion
Phospholipid interaction; NMR (Jendrasiak, G.L. (1145) 25)

Chaperone protein
groEL; Protein unfolding; Protein folding (Price, N.C. (1161) 52)

Chaperonin
Nucleotide binding sequence; Amino acid sequence; (Rat) (Hartman, D.J. (1164) 219)

Lyme disease; Molecular mimicry; Antibody H9724; HSP60 (Dai, Z. (1181) 97)

MCAD deficiency; GroE; Aggregation; Folding; Oligomer assembly (Bross, P. (1182) 264)

Characterization
Delayed rectifier; Potassium ion current; Potassium ion channel; Epitope; (Human) (Philipson, L.H. (1153) 111)

Acetolactate synthase; Purification; (*Serratia marcescens*) (Yang, J.H. (1157) 178)

Phosphofructokinase; Purification; (Rainbow trout) (Su, Y. (1160) 301)

Lipase; Refolding; Enzyme purification; (*P. fluorescens*) (Lee, Y.P. (1169) 156)

Cytochrome $P\text{-}450_{14DM}$; Purification; Lanosterol 14α-demethylase; Immunoaffinity chromatography; Liver; (Human) (Sonoda, Y. (1170) 92)

Molecular cloning; Allergen; IgE; (*Myrmecia pilosula*) (Donovan, G.R. (1171) 272)

Ribosomal gene promotor; Trypanosome DNA-binding protein; Purification; (*T. brucei*) (Mburu, P.W. (1172) 5)

Charge effect
Myosin; Nucleotide binding; Donnan potential (Bartels, E.M. (1157) 63)

Charge pulse
DIDS; SITS; Chloride carrier; Turgor pressure regulation; (*V. utricularis*) (Spieß, I. (1149) 93)

Charge recombination
Photosystem II; Reaction center; Energy transfer kinetics; Charge separation (Roelofs, T.A. (1143) 147)

Charge separation
Picosecond transient absorption; Energy transfer; Primary electron acceptor; (*H. chlorum*) (Van Noort, P.I. (1140) 15)

EPR; Reaction center; Quinone acceptor orientation; Photosynthesis; (Bacteria) (Füchsle, G. (1142) 23)

Photosystem II; Reaction center; Energy transfer kinetics; Charge recombination (Roelofs, T.A. (1143) 147)

Chelating agent
Mithramycin; Circular dichroism; Metal chelator (Demicheli, C. (1158) 59)

Chemically modified hemoglobin
Bovine hemoglobin; Divinyl sulfone; Oxygen transport; Retention time (Ilan, E. (1163) 257)

Chemical modification
Organic cation transport; Substrate recognition; Basolateral membrane; Brush-border membrane; (Rat kidney) (Katsura, T. (1146) 197)

Restriction endonuclease *Cfr*9I; Thiol group (Siksnys, V. (1160) 199)

Irreversible modification; Glucosamine-6-phosphate synthase; (Baker's yeast) (Milewski, S. (1161) 279)

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Phospho*enol*pyruvate carboxykinase; Vicinal cysteine; Peptide sequence (Rojas, M.C. (1164) 143)

AMP deaminase; Regulatory protein; Sulfhydryl group; Ligand-induced regulation (Nagel-Starczynowska, G. (1164) 261)

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DPPC; POPG; Phase property; NMR; Lung surfactant (Wiedmann, T. (1167) 114)

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Light emission; Rat liver microsome; Ferritin; Oxygen radical; Paraquat (Puntarulo, S. (1157) 1)

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Hydroperoxide; Low-density lipoprotein; Atherosclerosis; Modified low-density lipoprotein; Lipid peroxidation (Cominacini, L. (1165) 279)

Lipoxygenase; Phosphatidylcholine; Elicitor; Defense mechanism; (Soybean) (Kondo, Y. (1170) 301)

Chemotaxis
Interleukin 8; Receptor; G protein; Signal transduction; Neutrophil (Barnett, M.L. (1177) 275)

Protein kinase C; G protein; R59022; GTPγS; fMet-Leu-Phe (Boonen, G.J.J.C. (1178) 97)

Chemotaxis protein
Protein purification; Homogeneity; Reconstitution; Methylation; (*B. subtilis*) (Hanlon, D.W. (1158) 345)

Chemotherapy
Malaria; Cysteine proteinase; Hemoglobin hydrolysis; (*P. vinckei*); (*P. falciparum*) (Rosenthal, P.J. (1173) 91)

Chick
Hyaluronate; Proteoglycan; Bone; Vitamin D; Rickets (Dickson, I.R. (1181) 15)

Chick embryo
Acetylcholinesterase; Cell culture; Fibroblast; Myogenesis; Plasma membrane; Skeletal muscle (Elson, H.F. (1156) 78)

Chick IL-6
Hepatocyte; Regulation; Fibroblast; Fibronectin (Samad, F. (1181) 207)

Chimeric enzyme
Reverse transcriptase; Retrovirus; Retrotransposon; (*D. melanogaster*) (Kanda, T. (1163) 223)

Chiral-phase column chromatography
Stereoselectivity; Lipase; Chromatography (Uzawa, H. (1169) 165)

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Magnesium ion influx; Cotransport; Sodium ion; Bicarbonate; Phosphate; (Rat hepatocyte) (Günther, T. (1149) 49)

Chloride-sensitive indicator; Barbiturate; Synaptoneurosome (Engblom, A.C. (1153) 262)

Chloride carrier
DIDS; SITS; Charge pulse; Turgor pressure regulation; (*V. utricularis*) (Spieß, I. (1149) 93)

Chloride channel
Patch clamp; Single-channel current; Channel number; Kidney (Marunaka, Y. (1153) 105)

Gene expression; Oocyte expression; A7r5; (*Xenopus*); (Rat) (Abe, T. (1173) 353)

Chloride conductance
Microsome; Endoplasmic reticulum; Light scattering; Nucleotide; CFTR; (Pancreas); (Porcine) (Bégault, B. (1152) 319)

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Chloride ion permeability
Cystic fibrosis transmembrane conductance regulator (CFTR); Cystic fibrosis; 6-Methoxy-1-(3-sulfonatopropyl)quinolinium (SPQ); Fluorescence imaging; L cell (Dho, S. (1152) 83)

Chloride-sensitive indicator
Chloride; Barbiturate; Synaptoneurosome (Engblom, A.C. (1153) 262)

Chlorobium
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Chloroperoxidase
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Energy transfer; Fluorescence; Light harvesting complex I; Photosystem I (Mukerji, I. (1142) 311)

Chlorophyll *a*
Antenna; Cyanobacterium; Photosystem I; Pump-probe spectroscopy; Ultrafast spectroscopy; (*Synechococcus*) (Lin, S. (1140) 6)

Triplet state; Photosystem II; D1-D2-cyt *b*-559 complex; Pheophytin *a*; Absorbance spectrum (Van der Vos, R. (1140) 184)

Chlorophyll *a* fluorescence
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Chlorophyll *a*/*b*
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Chlorophyll *a*/*b* antenna
Photosystem I; Photosystem II; Chlorophyll *a*/*b*; Fluorescence induction; Photosynthesis regulation (Post, A.F. (1144) 374)

Chlorophyll *a*/*b*-binding protein
Lhcb gene; Nucleotide sequence; (*Pisum*) (Falconet, D. (1173) 333)

Chlorophyll-binding protein
Photosystem II; Photosynthesis; Water splitting system; Thermoluminescence; Thylakoid membrane (Carpenter, S.D. (1144) 204)

Chlorophyll center
Modulation analysis; Electron spin echo; Reaction center; Photosystem I; (Bacteria); (Spinach) (Davis, I.H. (1143) 183)

Chlorophyll fluorescence
Fluorescence induction; Photosystem II; Photosystem II heterogeneity; Plastoquinone (Hsu, B.-D. (1140) 30)

Bicarbonate; D1 protein; Electron transport; Photosystem I; Reaction center II; (*L. gibba*) (Gong, H. (1142) 115)

pH gradient; Photosynthesis; Photosystem II; Thylakoid membrane; Light harvesting complex (Horton, P. (1142) 203)

Chlorophyll fluorescence induction
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Chlorophyll protein
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Chlorophyll-protein complex
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Chloroplast
Photophosphorylation; ATPase, thylakoid; Local anesthetic; Localized energy coupling (Laasch, H. (1140) 251)

ATP hydrolysis; ATPase, H^+-; F_0F_1; Binding site (Labahn, A. (1141) 288)

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Thylakoid membrane; Ion channel; Membrane potential; Electron transport (Enz, C. (1143) 67)

Light-harvesting; Photosynthesis; Thylakoid; (Chlorophyta); (*M. squamata*) (Rhiel, E. (1143) 163)

Photosystem I; PsaE; Electron transport; Fluorescence (Weber, N. (1143) 204)

ATPase, H^+-; CF_0F_1; Enzyme kinetics (Labahn, A. (1144) 170)

2-Oxoglutarate/malate translocator; Dicarboxylate transport; Reconstitution (Menzlaff, E. (1147) 13)

Fatty acid synthase, type II; Fatty acid synthesis; Catalytic step; (*E. gracilis*) (Worsham, L.M.S. (1170) 62)

Nuclear *fus* gene; Translocation factor; Elongation factor G; (Soybean) (Torres, J.H. (1174) 191)

Chloroplast NADP-malate dehydrogenase
Redox modification; Regulatory sequence; Limited proteolysis; Amino-terminal truncation (Yuan, L. (1162) 10)

Redox modification; Regulatory sequence; Limited proteolysis; Amino-terminal truncation (Ocheretina, O. (1163) 10)

Chloroplast ribosome
Ribosomal protein L12; cDNA sequence; (Rye); (*S. cereale* L.) (Schmidt, M. (1172) 349)

Chloroquine
HDL; HDL-binding site; Lysosome; Mahlavu; Hepatoma cell line; (Human) (Sakai, N. (1169) 169)

Chloroquine resistance
Malaria; β-Hematin; Ferriprotoporphyrin IX (Orjih, A.U. (1157) 270)

Chlororespiration
Adaptation mechanism; Photosynthesis; Protein phosphorylation; Light-harvesting protein; State transition (Harrison, M.A. (1141) 37)

Cholate
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Cholecystokinin
Lipopeptide; Gastrin; Peptide conformation; Lipid bilayer; Lipid transfer; Calcium affinity (Romano, R. (1151) 111)

Cholecystokinin octapeptide
Lactate dehydrogenase; (Pancreatic acinar cell); (Rat) (Bhat, S.T. (1177) 208)

Cholecystokinin receptor, low affinity
Signal transduction; (Pancreatic acinar cell) (Vinayek, R. (1176) 183)

Cholecystokin receptor
Cibacron blue; Receptor binding; (Pancreas) (Yuan, D.S. (1146) 52)

Cholestasis
Critical micellar concentration; Bile salt concentration, inter-mixed micellar/intervesicular (Donovan, J.M. (1182) 37)

4-Cholesten-3-one
5-Cholesten-3β-ol; 5-Cholesten-3-one; Δ^5-Isomerase; Monolayer membrane; Cholesterol oxidase (Slotte, J.P. (1145) 243)

5-Cholesten-3β-ol
5-Cholesten-3-one; 4-Cholesten-3-one; Δ^5-Isomerase; Monolayer membrane; Cholesterol oxidase (Slotte, J.P. (1145) 243)

5-Cholesten-3-one
5-Cholesten-3β-ol; 4-Cholesten-3-one; Δ^5-Isomerase; Monolayer membrane; Cholesterol oxidase (Slotte, J.P. (1145) 243)

Cholesterol
L-FABP; Phospholipid; Transfection; L cell; Fluorescence (Woodford, J.K. (1145) 257)

Phospholipase D; 1,2-Diacylglycerol; Phosphatidylcholine (Yamamoto, I. (1145) 293)

Arachidonic acid; Diabetes mellitus; Fatty acid; Glycerol permeability; Phospholipid; Renal cortical membrane; Brush-border membrane; Basolateral membrane; DPH; Fluorescence polarization (Ramsammy, L.S. (1146) 1)

Saturated phosphatidylcholine; Phosphatidylcholine; Lipid bilayer; Gel state; Merocyanine 540; Visible absorption spectrum; Fluorescence band; Surface property (Bernik, D.L. (1146) 169)

Mesophase formation; Ceramide; Lipid packing model; (Stratum corneum) (Parrott, D.T. (1147) 273)

Epidermal growth factor; Reconstitution; Phosphoinositide; Receptor affinity; (A431 cell) (Den Hartigh, J.C. (1148) 249)

Liposome permeability; *N*-Acylethanolamine phospholipid; Model membrane; Osmotic response; Phosphatidylcholine (Domingo, J.C. (1148) 308)

2,2-Bis(*p*-chlorophenyl)-1,1-dichloroethylene (DDE); Fluorescent probe; Membrane fluidity (Antunes-Madeira, M.C. (1149) 86)

CD14; Monocyte; Fc receptor; Glycophospholipid-anchored glycoprotein (Esfahani, M. (1149) 217)

Melittin; NMR, solid-state; Phosphatidylcholine bilayer; Discoidal particle; Lipid polymorphism (Monette, M. (1149) 319)

Liposome; Reverse cholesterol transport; Atherosclerosis (Rodrigueza, W.V. (1153) 9)

Erythrocyte; Lipid vesicle; Divalent cation; Hemolysin; Exotoxin; (*G. vaginalis*) (Cauci, S. (1153) 53)

Liposome; θ-Toxin; Perfringolysin O; Erythrocyte; Cytolysis; (*Cl. perfringens*) (Iwamoto, M. (1153) 89)

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Phosphatidylcholine; Phase transition; DSC; Unsaturation; Lipid–cholesterol interaction (Hernandez-Borrell, J. (1153) 277)

Molecular modeling; Sequence homology; Membrane topology; Cytochrome $P\text{-}450_{scc}$ (Vijayakumar, S. (1160) 281)

Cytochrome $P\text{-}450_{scc}$; Pregnenolone; Hydroxycholesterol; Cholesterol side-chain cleavage; (Placenta) (Tuckey, R.C. (1163) 185)

Mevinolin; HMG-CoA reductase inhibitor; Acyl-CoA : cholesterol acyltransferase; LDL; (Caco-2 cell) (Fellermann, K. (1165) 78)

Dolichyl monophosphate; Polyisoprenoid; Isoprene; Liver; Brain; (Rat) (Löw, P. (1165) 102)

Sphingomyelin; Phosphatidylcholine; Cholesterol esterification; Cholesterol efflux; (Human skin fibroblast) (Stein, O. (1165) 153)

Hydroxylation; 27-Hydroxylase; Cytochrome *P*-450; (Pig liver mitochondria) (Lund, E. (1166) 177)

Diet; Hypercholesterolaemia; Hypertriglyceridaemia; Phosphatidate phosphohydrolase; Triacylglycerol (Sessions, V.A. (1166) 238)

Pravastatin; Lovastatin; Ocular lens; HMG-CoA reductase inhibitor; Vastatin (De Vries, A.C.J. (1167) 63)

Insulin; Diabetes; Streptozotocin; Fish oil; Triacylglycerol; Glucose; Glucose-6-phosphate dehydrogenase; (Rat) (Baltzell, J.K. (1167) 197)

Lipoprotein; Apolipoprotein; Skeletal muscle lymph; Peripheral lymph; (Dog) (Sloop, C.H. (1169) 196)

Foam cell; Macrophage (Nishikawa, K. (1169) 257)

Fatty acid; Polyunsaturated fatty acid; Nutrient transport; Intestinal morphology; Infant feeding (Thomson, A.B.R. (1170) 80)

Dolichol; Coenzyme Q; Ubiquinone; Isoprenoid; Liver (Keller, R.K. (1170) 204)

Cholesterol absorption
Cholesterol synthesis; Hyporesponsivity; Hyperresponsivity; Intestine; (Human) (Safonova, I.G. (1166) 313)

Cholesterol acyltransferase
Brefeldin A; Acyl-CoA; Cholesterol esterification (Hasumi, K. (1167) 155)

Cholesterol 7α-hydroxylase
Bile acid synthesis; Lipoprotein; Stearic acid; (Hamster) (Kishinaka, M. (1165) 222)

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Cholesterol binding site
Cytochrome $P\text{-}450_{scc}$; *P*-450 XIA1; Methoxychlor; Monooxygenase (Tsujita, M. (1161) 124)

Cholesterol biosynthesis
Dietary cholesterol; LDL receptor; HMG-CoA reductase; Lathosterol; (Rat) (Roach, P.D. (1170) 165)

Cholesterol efflux
Lipoprotein containing apoA-I, LpA-I; Lipoprotein containing apoA-I/apoA-II, LpA-I/A-II; (Rat macrophage); (Rat foam cell) (Ohta, T. (1165) 119)

Sphingomyelin; Cholesterol; Phosphatidylcholine; Cholesterol esterification; (Human skin fibroblast) (Stein, O. (1165) 153)

Cholesterol ester
Lipoprotein; Fluorescence (Li, Q.-T. (1166) 145)

Cholesterol esterase
cDNA; Expression; PEST; (Rabbit pancreas) (Colwell, N.S. (1172) 175)

Cholesterol esterification
Sphingomyelin; Cholesterol; Phosphatidylcholine; Cholesterol efflux; (Human skin fibroblast) (Stein, O. (1165) 153)

Brefeldin A; Acyl-CoA; Cholesterol acyltransferase (Hasumi, K. (1167) 155)

Cholesterol gallstone
Nucleation time; Apolipoprotein A-I; Vesicle; Discoidal particle; Transmission electron microscopy (Tao, S. (1166) 25)

Lecithin; Nucleation time; Vesicle (Tao, S. (1167) 142)

Cholesterol–HDL
Atherosclerosis; Cholesteryl ester; Probucol; Apolipoprotein A-I; Cholesterol–LDL (Eisenberg, S. (1167) 79)

Cholesterol–LDL
Atherosclerosis; Cholesteryl ester; Probucol; Apolipoprotein A-I; Cholesterol–HDL (Eisenberg, S. (1167) 79)

Cholesterol lowering
Lipoprotein lowering; Primary prevention of aortic lipidosis; Pravastatin; (White Carneau pigeon) (Hadjiisky, P. (1181) 279)

Cholesterol metabolism
Acyl-CoA : cholesterol acyltransferase; 3-Hydroxy-3-methylglutaryl-CoA reductase; Acclimation temperature; (Carp liver) (Teichert, T. (1165) 211)

Etofibrate; Triacylglycerol; Free fatty acid; Glycerol; HMG-CoA reductase; (Rat) (Bocos, C. (1168) 340)

Cholesterol oxidase
5-Cholesten-3β-ol; 5-Cholesten-3-one; 4-Cholesten-3-one; Δ^5-Isomerase; Monolayer membrane (Slotte, J.P. (1145) 243)

Cholesterol side-chain cleavage
Cytochrome P-450$_{scc}$; Pregnenolone; Cholesterol; Hydroxycholesterol; (Placenta) (Tuckey, R.C. (1163) 185)

Cholesterol synthesis
Cholesterol absorption; Hyporesponsivity; Hyperresponsivity; Intestine; (Human) (Safonova, I.G. (1166) 313)

Cholesterol transport
HDL; Tangier disease; Plasma lipoprotein; Apolipoprotein (Duchateau, P. (1182) 30)

Cholesteryl ester
Lipoprotein; HDL; Liver; Cholesteryl ether; Selective uptake; Hepatoma; Plasma membrane (Rinninger, F. (1166) 275)

Atherosclerosis; Probucol; Apolipoprotein A-I; Cholesterol–LDL; Cholesterol–HDL (Eisenberg, S. (1167) 79)

Reconstituted HDL; Apolipoprotein A-I; Apolipoprotein A-II (Rye, K.-A. (1167) 316)

Apolipoprotein B; Oleate; Fluvastatin; 25-Hydroxycholesterol; (HepG2 cell) (Furukawa, S. (1170) 32)

Cholesteryl ester metabolism
Lipoprotein; HDL; LDL; Liver; Selective uptake; Reverse cholesterol transport; Plasma membrane (Rinninger, F. (1166) 284)

Cholesteryl ester transfer protein deficiency
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Cholesteryl ether
Lipoprotein; HDL; Liver; Cholesteryl ester; Selective uptake; Hepatoma; Plasma membrane (Rinninger, F. (1166) 275)

Cholestyramine
HMG-CoA reductase; Simvastatin; Apolipoprotein synthesis; mRNA; Hypolipemia; (Rat liver) (Mitchell, A. (1167) 9)

Choline
Hemicholinium (HC-3); Epithelial cell; Transport system; Polarity; (MDCK cell) (Zlatkine, P. (1153) 237)

Placenta; Trophoblast; Maternal-fetal transport (Garner, S.C. (1168) 358)

Choline metabolism
Organic osmolyte; Phosphatidylcholine; Glycerophosphorylcholine; Metabolic pathway; Collecting duct; IMCD cell; (Rat kidney) (Bauernschmitt, H.G. (1148) 331)

Cholinephosphate cytidylyltransferase
Surfactant synthesis; Human fetal lung; Glucocorticoid; cAMP; T_3 (Sharma, A. (1170) 237)

Choline phosphoglyceride
Phospholipase C; Phospholipase D; Phosphono analog; Neutrophil; (Human) (Strum, J.C. (1169) 25)

Cholinephosphotransferase
Ethanolaminephosphotransferase; (Rat-brain microsome) (Roberti, R. (1165) 183)

Platelet-activating factor; Acetyltransferase; Microsome; Cerebral cortex; (Rabbit) (Baker, R.R. (1170) 157)

Cholinergic synaptic vesicle
Recycling; Vesamicol; Electric organ; (*T. marmorata*) (Říčný, J. (1148) 234)

Choline transport
Membrane transport; Amino acid transport; Preimplantation conceptus; (Preimplantation embryo) (Van Winkle, L.J. (1146) 38)

Chondrocyte
Halofuginone; Collagen; Fibroblast (Granot, I. (1156) 107)

Cartilage; Cytokine; Arthritis; Macrophage colony-stimulating factor; Interleukin 1 (Campbell, I.K. (1182) 57)

Chondroitin sulfate
LDL; Sulfated glycosaminoglycan; Dermatan sulfate; Heparin; Fluorescence anisotropy (Gigli, M. (1167) 211)

Chondrolysis
Fibronectin; Cartilage; Fragment; Proteinase; Proteoglycan (Xie, D.-l. (1182) 189)

Chorion
Phospholipase A_2; Amnion; Placenta; Parturition (Aitken, M.A. (1170) 314)

Chorionic gonadotropin
Monoclonal antibody; Antigenic determinant; Structure-function relationship (Maurel, M.-C. (1159) 74)

4-Chorophenylurethane-monensin
NMR, ^{23}Na-; Potassium ion atomic absorption; Bacterial membrane; Monensin; Ion selectivity; (*S. faecalis*); (*E. hirae*) (Rabaste, F. (1179) 166)

Chromatography
Plastocyanin; Cytochrome f (Morand, L.Z. (1141) 105)

Stereoselectivity; Lipase; Chiral-phase column chromatography (Uzawa, H. (1169) 165)

Chromogenic substrate
β-D-Galactosidase; (*E. coli*); (*A. niger*); (Bovine); (Jack bean) (Pócsi, I. (1163) 54)

Chromogranin B
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Chromosomal localization
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Chronic granulomatous disease
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Chymotrypsin domain
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Subtilisin; Quantitative structure–activity relationship; Nucleophile specificity; Substrate specificity (Gololobov, M.Y. (1160) 188)

Protamine; Trypsin; Primary structure; Mass spectrometry; (*S. caniculus*) (Kouach, M. (1162) 99)

Peptide synthesis; Amino terminal protecting group; Partition parameter; Hydrophobicity; Molecular ovality (Calvet, S. (1164) 189)

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Cholecystokin receptor; Receptor binding; (Pancreas) (Yuan, D.S. (1146) 52)

Ciliary epithelium, non-pigmented
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Cimetidine
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Polyene antifungal antibiotic; NMR, ^1H-; Aggregation; Amphotericin B (Balakrishnan, A.R. (1148) 269)

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ATPase, F_1-; β-Subunit; Signal sequence (Bruch, M.D. (1159) 81)

Protein conformation; Toxin; δ-Endotoxin; (*B. thuringiensis*) (Venugopal, M.G. (1159) 185)

Electron transfer; Long range electron transfer; Alpha helix; Pulse radiolysis; Leucine zipper peptide (Lee, H. (1159) 286)

myo-Inositol monophosphatase; Secondary structure prediction; Raman spectroscopy; Fluorescence; Thermostability (Ganzhorn, A.J. (1161) 303)

Myoglobin; Protein reconstitution; Heme orientation; Synthetic hemin; (Horse heart) (Santucci, R. (1164) 133)

Lipase stereoselectivity; Di-*O*-acylglycerol (Uzawa, H. (1168) 253)

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PAF; Receptor (Ko, F.-N. (1175) 225)

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Beta oxidation; Fatty acid; Ketogenesis; (Rat hepatocyte) (Henly, D.C. (1175) 269)

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TIMP; AP-1; c-*fos*; c-*ets*; PEA3; Transcriptional regulation (Edwards, D.R. (1171) 41)

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Classification
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Clathrin
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Clathrin-coated vesicle
GTP-binding protein; Calcium; Cerebral cortex; Optic nerve (Bielinski, D.F. (1151) 246)

Clearance
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Protein kinase C; Calpain; Limited proteolysis (Kikuchi, H. (1162) 171)

Clofibric acid
Glycerolipid metabolism; Phosphatidylcholine; Arachidonic acid; Kidney; (Rat) (Kawashima, Y. (1169) 202)

Cloning
Phospholipase A_2; Enzyme structure (Kudo, I. (1170) 217)

Mitochondrion; Amino acid sequence; Liver; (Rat) (Van Schaik, R.H.N. (1169) 1)

Erythrocyte AMP deaminase; AMP deaminase; cDNA; Sequence (Yamada, Y. (1171) 125)

Koningic acid; Glyceraldehyde-3-phosphate dehydrogenase; Isozyme; Nucleotide sequencing; (*T. koningii*) (Watanabe, H. (1172) 43)

Apolipoprotein C-III; Apolipoprotein A-IV; Sequence analysis; Cynomolgus; (*M. fascicularis*) (Osada, J. (1172) 335)

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Protein kinase C-δ; Protein kinase C group; Phorbol ester; Gene expression; (Human) (Aris, J.P. (1174) 171)

Clupeine
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Clupeine–nucleotide interaction
Protamine; NMR, ^1H-; Clupeine (D'Auria, G. (1162) 209)

Cluster
Association probability; Amphiphile molecule; Monolayer; Thermotropic behavior (Popescu, D. (1152) 35)

Cluster distributions
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Clusterin
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gp80; DNA transfection; Protein secretion; Apoptosis (Pilarsky, C. (1179) 306)

CMP-*N*-acetylneuraminic acid
Sialic acid; Hydroxylase; *N*-Glycoloylneuraminic acid; (Starfish); (*A. rubens*) (Schlenzka, W. (1161) 131)

CMP-*N*-acetylneuraminic acide : lactosylceramide sialyltransferase
Glycosphingolipid; Ganglioside; Monocyte/macrophage differentiation; UDP-glucose : ceramide glucosyltransferase; UDP-galactose : glucosylceramide β-galactosyltransferase (Kiguchi, K. (1176) 27)

dCMP deaminase
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c-*myc*
1,25-Dihydroxyvitamin D-3; mRNA stability; HL-60 (Mangasarian, K. (1172) 55)

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Platelet microparticle; Phospholipid asymmetry; Sickle cell; Scott syndrome; Anti-phospholipid antibody (Zwaal, R.F.A. (1180) 1)

CoA requiring enzyme
Cofactor binding site; Antibody (Tucker, M.M. (1162) 315)

Coat
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Coated vesicle
Clathrin; Assembly polypeptide; Gene sequence; (Yeast); (*S. cerevisiae*) (Nakai, M. (1174) 282)

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Bacteriophage; EPR; Polarizing microscopy; Macroscopic ordering; Reconstituted lipid-protein system; (M13) (Ottaviani, M.F. (1152) 171)

Cobalamin
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Transcobalamin; Transcobalamin II receptor; Endocytosis; (Germ cell) (Boukhzer, E. (1175) 128)

Cobalamin metabolism
Cob(III)alamin reductase; Cyanocobalamin β-ligand transferase; Rat liver; *cbl C, cbl D*, and *cbl E* mutant fibroblasts (Pezacka, E.H. (1157) 167)

Cobalt
Superoxide dismutase; Glutathione peroxidase; α-Tocopherol (Hatori, N. (1181) 257)

Cobalt(II)
Cobalt(III); EDTA; Hydroxyl radical; Fe(III) catalysis (Eberhardt, M.K. (1157) 102)

Cobalt(III)
Cobalt(II); EDTA; Hydroxyl radical; Fe(III) catalysis (Eberhardt, M.K. (1157) 102)

Cobalt ion
Enzyme purification; Metalloproteinase; Myosin; Zinc ion; (Squid muscle) (Okamoto, Y. (1161) 97)

Cob(III)alamin reductase
Cobalamin metabolism; Cyanocobalamin β-ligand transferase; Rat liver; *cbl C, cbl D*, and *cbl E* mutant fibroblasts (Pezacka, E.H. (1157) 167)

Coeliac disease
Gliadin peptide; Toxicity, in vitro; Peptide (Cornell, H.J. (1181) 169)

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Coenzyme A
Luciferase; Firefly; Bioluminescence; Luciferin; Overexpression vector (Devine, J.H. (1173) 121)

Coenzyme Q
Antioxidant; Atherosclerosis; NADH-dehydrogenase; Ubiquinol-10 (Stocker, R. (1158) 15)

Dolichol; Ubiquinone; Isoprenoid; Liver; Cholesterol (Keller, R.K. (1170) 204)

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Guanine nucleotide binding protein; Inositol lipid; Phospholipase C; Immunoblotting (Milligan, G. (1179) 208)

Cofactor binding site
Antibody; CoA requiring enzyme (Tucker, M.M. (1162) 315)

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Membrane proliferation; Cytochrome *P*-450; KAR2p; SEC61p; Colocalization (Wiedmann, B. (1153) 267)

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Lipase; Facultative psychrophile; DNA sequence; Antarctic (Arpigny, J.L. (1171) 331)

Collagen
Halofuginone; Fibroblast; Chondrocyte (Granot, I. (1156) 107)

Hydroxylysine glycoside; Glycosidase (Moro, L. (1156) 288)

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Collagenase; Collagen-related synthetic peptide; Fibrinogen; Thrombin; Synthetic peptide (Maruyama, S. (1164) 215)

DNA binding protein; Bidirectional transcription; Promoter (Schmidt, C. (1174) 1)

Heparin; Fibroblast; Cell proliferation (Ferrao, A.V. (1180) 225)

Interferon γ; Orbital fibroblast; Fibronectin; Cytokine (Higgins, P.J. (1181) 23)

Collagen-related synthetic peptide
Collagen; Collagenase; Fibrinogen; Thrombin; Synthetic peptide (Maruyama, S. (1164) 215)

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Isotope ratio mass spectropetry; Turnover rate; Collagen type (Rucklidge, G.J. (1156) 57)

Collagen type
Collagen turnover; Isotope ratio mass spectropetry; Turnover rate (Rucklidge, G.J. (1156) 57)

Collagen XII
Fibril-associated protein; Extracellular matrix; Differential splicing (Trueb, J. (1171) 97)

Collagenase
Collagen; Collagen-related synthetic peptide; Fibrinogen; Thrombin; Synthetic peptide (Maruyama, S. (1164) 215)

Collagenase resistant fragment
Surfactant protein A; Intrinsic fluorescence; Calcium ion binding (Sohma, H. (1159) 150)

Collecting duct
Organic osmolyte; Choline metabolism; Phosphatidylcholine; Glycerophosphorylcholine; Metabolic pathway; IMCD cell; (Rat kidney) (Bauernschmitt, H.G. (1148) 331)

Colloidal gold
Kupffer cell; Liver endothelial cell; Polystyrene microsphere; Opsonin; Dysopsonin; (Rat liver) (Moghimi, S.M. (1179) 157)

Colocalization
Membrane proliferation; Cytochrome *P*-450; KAR2p; SEC61p; Coinduction (Wiedmann, B. (1153) 267)

Colon
Glyoxalase I; Glutathione *S*-transferase; Carcinoma; Tumor marker; (Human) (Ranganathan, S. (1182) 311)

Colon 26 carcinoma
Liposome; Thermosensitive liposome; Long-circulating liposome; Ganglioside GM1; Drug delivery system; Hyperthermia; Doxorubicin (Maruyama, K. (1149) 209)

Common carotid occlusion
Brain ischemia; EPR; Nitric oxide; Spin trapping (Sato, S. (1181) 195)

Common deletion
Mitochondrion; mtDNA; Respiratory chain; Kearns-Sayre syndrome; Aging (Simonetti, S. (1180) 113)

Compartmentation
Creatine kinase; Pyruvate kinase; Adenine nucleotide; Intermembrane space; (Rat heart mitochondrion) (Gellerich, F.N. (1140) 327)

Mitochondrion; Dextran; Adenylate kinase; Porin; Intermembrane space (Gellerich, F.N. (1142) 217)

Mitochondrion; Outer mitochondrial membrane; Dextran; Hexokinase; Contact site; Intermembrane space (Wicker, U. (1142) 228)

Cardiomyocyte; Mitochondrion; ADP; Creatine kinase; Oxidative phosphorylation (Saks, V.A. (1144) 134)

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Complex assembly
Leigh syndrome; Cytochrome-*c* oxidase; Kinetics; Complex stability; ELISA-titration (Zimmermann, P. (1180) 99)

Complex formation
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Complex glycosphingolipid
Polyglycosylceramide; Erythrocyte; FABMS; HPLC; Purification; (Human) (Miller-Podraza, H. (1168) 330)

Complex I
Mitochondrion; Sequence conservation; Sequence relationship (Fearnley, I.M. (1140) 105)

Nickel hydrogenase; Subunit; Sequence homology; Relationship (Albracht, S.P.J. (1144) 221)

Mitochondrion; NADH:ubiquinone oxidoreductase; cDNA; (*N. crassa*) (Duarte, M. (1172) 327)

Complex II
Aerobic–anaerobic transition; Respiratory chain; (*Ascaris* mitochondria) (Takamiya, S. (1141) 65)

Complex III
Mitochondrion; Succinate–cytochrome-*c* reductase (Taylor, R.W. (1181) 261)

Complex stability
Leigh syndrome; Cytochrome-*c* oxidase; Kinetics; Complex assembly; ELISA-titration (Zimmermann, P. (1180) 99)

Complexation
Monolayer; Valinomycin; Ion selectivity (Zaitsev, S.Y. (1148) 191)

Component analysis
Protein stability; Nuclease; Free energy; Denaturation; Molecular dynamics; (*S. aureus*) (Yamaotsu, N. (1163) 81)

Component solubility
Platelet membrane; Primary bile salt; Optical absorbance; Leakage; Electron microscopy; Aggregation; (Human blood) (Shiao, Y.-J. (1146) 282)

Compression
Phospholipid; Monolayer; Surface film; Adsorption; Squeeze-out; Stability; Surface tension (Yu, S.-H. (1167) 264)

Computer modelling
Apolipoprotein; Amphipathic helix; Lipid–protein interaction; Secondary structure; Synthetic peptide (Brasseur, R. (1170) 1)

Computer simulation
Macromolecule; Bilayer; Lipid diffusion; Diffusion coefficient (Pink, D.A. (1148) 197)

Arachidonic acid; Fatty acid; Conformational analysis; Molecular dynamics simulation (Rich, M.R. (1178) 87)

Concanavalin A
Bacterium; Bactericide; Targeting; Proteoliposome; Triclosan; (*S. sanguis*); (*S. mutans*) (Jones, M.N. (1147) 251)

Conductance sublevel
Patch clamp; Carcinoma cell; Calcium ion channel; EGF (Naumov, A.P. (1145) 273)

Conductometric property
Electrical conductivity; Lymphocyte; Fractal model; Surface polarization; Membrane surface roughness; (Human) (Bordi, F. (1153) 77)

Configurational entropy
Ethanol; Partition; Phase equilibrium; Anesthetic; EPR (Wang, D.-C. (1145) 141)

Conformation
ATPase, H^+/K^+-; Gastric acid secretion; Pantoprazole; Topology (Shin, J.M. (1148) 223)

Reverse micelle; Lipase; Kinetics; Protein-membrane/interface interaction; 1,2–*O*-Dilauryl-*rac*-glycero-3-glutaric acid-resorufin ester (Brown, E.D. (1161) 66)

Conformational analysis
Arachidonic acid; Fatty acid; Computer simulation; Molecular dynamics simulation (Rich, M.R. (1178) 87)

Conformational change
ATPase, Na^+/K^+-; Reaction sequence; Oligomycin; Kinetics; Ion transport (Pratap, P.R. (1151) 89)

Butyrylcholinesterase; Soman; Arrhenius plot; Hydrostatic pressure (Cléry, C. (1159) 295)

RNAase T_1; Relaxation kinetics; Temperature jump; Isomerization; Nucleotide binding (Walz, Jr., F.G. (1159) 327)

α_2-Macroglobulin; Trypsin; Light scattering; Calorimetry; DSC (Middaugh, C.R. (1161) 328)

Phospho*enol*pyruvate carboxykinase; Tryptophan fluorescence; Nucleotide binding (Encinas, M.V. (1162) 195)

Hydrophobic affinity partitioning; Pregnancy zone protein; α_2-Macroglobulin; Proteinase inhibition; (Human) (Jensen, P.E.H. (1164) 152)

Conformational dynamics
Cytochrome-*c* oxidase; Subunit V; Antibody binding (Freedman, J.A. (1164) 138)

Conformational transition
Alpha helix; Lipid–peptide interaction; Beta structure; Ion channel forming peptide; Liposome (Lee, S. (1151) 76)

RNA-polymerase; Fluorescent label (Ozoline, O.N. (1172) 251)

Congenital cataract
ζ-Crystallin; RNA splicing; cDNA cloning (Rodriguez, I.R. (1180) 44)

Conjugase
γ-Glutamyl hydrolase; Polyglutamate; Folate homeostasis; Protein secretion (Wang, Y. (1164) 227)

Conjugate
Ethacrynic acid; Glutathione; Glutathione *S*-transferase; Enzyme inhibition (Awasthi, S. (1164) 173)

Conjugated diene
Lipid peroxidation; Lung edema; Icosanoid; Indomethacin; ETYA; Microsome; *tert*-Butyl hydroperoxide (Al-Mehdi, A.B. (1167) 56)

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Contact angle
Asbestos; Mesothelioma; Cell; Adhesion; Cell surface thermodynamics (Lee, M.M. (1181) 223)

Contact site
Mitochondrion; Outer mitochondrial membrane; Dextran; Hexokinase; Compartmentation; Intermembrane space (Wicker, U. (1142) 228)

Contraction
Calcium signalling; Proliferation; Calcium ion channel, low voltage-activated; Calcium ion channel, high voltage-activated; (Aortic myocyte) (Richard, S. (1160) 95)

Control coefficient
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Controlled drug release
Liposome; Drug delivery system; 5-Fluorouracil; Reverse-phase evaporation method; Extrusion method (Elorza, B. (1153) 135)

Cooperativity
ATPase, F_1-; Catalytic site; Non-catalytic site; 8-Azido-adenine nucleotide; Photo affinity labeling (Edel, C.M. (1142) 327)

ATPase, F_1-; Azido-AMP-PNP; Mitochondrion; Substrate binding; (Beef heart) (Eckhardt, U. (1144) 419)

Papain; Cysteine proteinase; Hydrogen bonding; Binding energy; Kinetic specificity; Enzyme inhibition (Liu, S. (1158) 264)

Amino acid sequence; Myoglobin; Dimeric myoglobin; (*N. mutabilis*) (Parente, A. (1162) 1)

Hemoglobin; Oxygen affinity; (*H. medicinalis*) (Ilan, E. (1162) 77)

Hemocyanin; Oxygen carrier; Ligand binding; (*P. clarki*) (Makino, N. (1162) 237)

Tropomyosin; Caldesmon; Amino-terminal-deleted tropomyosin; Smooth muscle; Fibroblast (Novy, R.E. (1162) 255)

Antibody affinity; Monoclonal antibody; Solid phase (Werthén, M. (1162) 326)

Copper
Hydroperoxide toxicity; Respiratory chain injury; (*E. coli* membranes) (Rodriguez-Montelongo, L. (1144) 77)

Superoxide dismutase; Liver; Neonate rat (Yang, F.L. (1156) 232)

Depletion; Laccase; Mechanism; Reduction; Removal; (*R. vernicifcera*) (Li, J. (1160) 239)

Hemoglobin; Oxidation; Thiol; Gold thiol; Zinc (Potuznik, S. (1164) 289)

Sphingomyelinase; Sphingomyelin; Ganglioside; Phosphatidylserine; GM3; (Rat) (Lister, M.D. (1165) 314)

Copper center
Cytochrome-*c* oxidase; Proton translocation; Enzyme conformation; (Mitochondria) (Cooper, C.E. (1144) 149)

Copper deficiency
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Copper protein
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Amino acid sequence; Rusticyanin; Secondary structure prediction; Blue copper protein; (*T. ferrooxidans*) (Nunzi, F. (1162) 28)

Core complex
Photosystem II; Reaction center; Radical pair recombination; Photoinactivation (Liu, B. (1142) 129)

Coronary heart disease
Reverse cholesterol transport; HDL; Preβ apo A-I; Subpopulation; Plasma lipoprotein; Electrophoresis, two-dimensional; Ultracentrifugation (Asztalos, B.F. (1169) 291)

Corpus luteum
Protein kinase C; Protein phosphorylation; (Rat); (Ovary) (Cutler Jr., R.E. (1179) 260)

Correlation function
Binary lipid bilayer; Phase diagram; Specific heat; Local structure (Jørgensen, K. (1152) 135)

Corticosterone
Cytochrome *P*-450; Spontaneously hypertensive rat (SHR); Family 3A cytochromes *P*-450; Kidney; 6β-Hydroxycorticosterone (Ghosh, S. (1182) 152)

Corynomycolic acid
Phospholipid; (*Corynebacterium*) (Datta, A.K. (1169) 135)

COS-7 cell
EBV-based expression vector; G985 MCAD mutation; Subcellular location; Protein instability (Jensen, T.G. (1180) 65)

Cotransport
Membrane potential; Surface potential; Cation transport kinetics (Borst-Pauwels, G.W.F.H. (1145) 15)

Insect; Lepidoptera; Amino acid transport; Potassium; Symport; Cation dependence (Hennigan, B.B. (1148) 209)

Insect; Lepidoptera; Midgut; Potassium; Amino acid transport (Hennigan, B.B. (1148) 216)

Magnesium ion influx; Sodium ion; Chloride; Bicarbonate; Phosphate; (Rat hepatocyte) (Günther, T. (1149) 49)

Coupling mechanism
Antioxidant; Lipid signaling; Inositol lipid signaling (Khan, M.A. (1178) 215)

Coupling site I
NADH dehydrogenase; Flavoprotein; FMN; Respiratory chain; (Bovine heart mitochondria) (Sled, V.D. (1143) 199)

Covalent chromatography
Thymidylate synthase; Thiopropyl-Sepharose 6B (Bradshaw, T.P. (1163) 165)

Covalent modification
ATPase, (Ca^{2+} + Mg^{2+})-; Fluorescence; Resonance energy transfer; Sarcoplasmic reticulum (Mata, A.M. (1147) 6)

CP-47
Cyanobacterium; Transcription; Photosystem II; (*Synechococcus*) (Kulkarni, R.D. (1173) 329)

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Human hemoglobin; Hemoglobin Ozieri; IPG; FAB mapping; Electrospray mass spectrometry (Ferranti, P. (1162) 203)

CpG in linker DNA
DNA methylation; Histone H1 (D'Erme, M. (1173) 209)

CpG island
DNA binding protein; Plant transcription; Electrophoretic mobility shift assay; DNA methylation (Ehrlich, K.C. (1172) 108)

CP-I
Photosynthesis; Photosystem I; P700-enriched particle; Stark spectrum; Reaction center; Chlorophyll-protein complex (Krawczyk, S. (1143) 282)

CP-II
Photosynthesis; Chlorophyll protein; Light-harvesting chlorophyll-protein; LHC-II; Spectral form; Stark spectrum (Krawczyk, S. (1143) 273)

C1q
Clusterin; Immunoglobulin binding; ELISA; Protein A (Wilson, M.R. (1159) 319)

sCR1
C4; C4b; Isotype (Gibb, A.L. (1180) 313)

C-reactive protein
Pentraxin; P-component; Amyloid; Acute phase; Inflammation (Swanson, S.J. (1160) 309)

Creatine
β-Guanidinopropionic acid; NMR, ^{31}P-; Creatine kinase; Cardiac energy metabolism; (Isolated perfused rat heart) (Unitt, J.F. (1143) 91)

Creatine kinase
Sulfhydryl group; Free radical; Superoxide anion radical; Hydrogen peroxide; (Rat heart mitochondrion) (Yuan, G. (1140) 78)

Pyruvate kinase; Compartmentation; Adenine nucleotide; Intermembrane space; (Rat heart mitochondrion) (Gellerich, F.N. (1140) 327)

β-Guanidinopropionic acid; Creatine; NMR, ^{31}P-; Cardiac energy metabolism; (Isolated perfused rat heart) (Unitt, J.F. (1143) 91)

Phosphocreatine; ATP/ADP translocase; Mitochondrion; Oxidative phosphorylation; Mathematical modeling; Heart (Aliev, M.K. (1143) 291)

Cardiomyocyte; Mitochondrion; ADP; Compartmentation; Oxidative phosphorylation (Saks, V.A. (1144) 134)

Protein conformation; Biphasic kinetics; Anisotropy; Steady state fluorescence (Grossman, S.H. (1159) 29)

Creatine kinase binding
Mitochondrial membrane; Adsorption; Binding model; Ionic strength; Essential amino acid (Fedosov, S.N. (1153) 322)

CREB
Transcription control; cyclic AMP-responsive element-binding protein; DNA binding; Gene transcription (Lee, K.A.W. (1174) 221)

Critical aggregate concentration (CAC)
Morphology; Peptidic lipid; Self assembly; DSC (Shimizu, T. (1147) 50)

Critical concentration
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Critical micellar concentration
p-Nitrophenyl acyl ester; Ionic/nonionic detergent (Bonelli, F.S. (1166) 92)

Cholestasis; Bile salt concentration, inter-mixed micellar/intervesicular (Donovan, J.M. (1182) 37)

Critical mixing
Lipid bilayer; Polypeptide; Phase diagram; Gramicidin A (Zhang, Z. (1147) 154)

Cross-linked hemoglobin
Hemoglobin; Renal function (Urbaitis, B. (1156) 50)

Crosslinking
Aminopeptidase N; Amino acid sequence; Brush-border membrane vesicle; (Bovine kidney) (Plakidou-Dymock, S. (1145) 105)

Phosphatidylethanolamine; Phase transition; Fluorescence anisotropy, steady-state; Interdigitated lipid phase; Parinaric acid (Harrison, M.M. (1149) 292)

Hypertrophic cartilage; Tibial dyschondroplasia; Collagen; (Chicken) (Orth, M.W. (1157) 229)

Microsomal glutathione transferase; Oligomeric structure (Lundqvist, G. (1159) 103)

Microtubule; Bundling; Microtubule-associated protein (MacRae, T.H. (1160) 145)

Crosslinking analysis
HIV-1 reverse transcriptase; Template interaction; Kinetic analysis (Andreola, M.-L. (1173) 147)

Crossreacting determinant
Anti-CRD antibody; Glycosylphosphatidylinositol anchor; Insulin mediator; Membrane dipeptidase (Broomfield, S.J. (1145) 212)

Cryobiology
Phospholipid; X-ray diffraction; Lipid phase behavior (Sanderson, P.W. (1148) 278)

Cryotoxicity
Antifreeze protein; Antifreeze glycoprotein; Freeze-thaw damage; Plastocyanin; Thylakoid; (Spinach) (Hincha, D.K. (1146) 258)

Cryptand
Nonactin; Temperature jump; Mobile carrier, ionizable and neutral; Alkali cation transport kinetics; Transport kinetics; Membrane structure (Vareille, G. (1146) 25)

Cryptosome
Plasminogen; Poly(ethylene glycol); Long-circulating liposome; Liposome; Protein binding; Drug targeting; Biodistribution (Blume, G. (1149) 180)

Crystallin
Glycation; Non-enzymatic glycosylation; Lens; Aging (Van Boekel, M.A.M. (1159) 99)

FTIR; Fourier self-deconvolution; Curve fitting; Secondary structure; Polypeptide conformation; (Lens) (Lamba, O.P. (1163) 113)

Heat-shock protein; Stress protein; (Glioma cell); (Human) (Kato, K. (1175) 257)

α-Crystallin
Aromatic amino acid; Protein matrix; Micelle (Augusteyn, R.C. (1162) 61)

NMR, ^{1}H-; NMR, ^{31}P-; Denaturation; Protein structure; (Bovine lens) (Carver, J.A. (1164) 22)

δ-Crystallin
Pigeon lens; Argininosuccinate lyase; Glycogen; Polymerase chain reaction; Sequence comparison; (*C. livia*) (Chiou, S.-H. (1160) 317)

ζ-Crystallin
Congenital cataract; RNA splicing; cDNA cloning (Rodriguez, I.R. (1180) 44)

Crystalline cylindrical structure
Dimyristoylphosphatidylglycerol; Negative stain electron microscopy; Microcalorimetry; Thermodynamic stability (Kodama, M. (1168) 243)

Crystalline domain
Lipid monolayer; Mosaic structure (Sakurai, S. (1146) 153)

CSF-1
Regulation; Myogenesis; Posttranscriptional regulation; (Rat myoblast) (Borycki, A.-g. (1174) 143)

***c*-subunit**
ATPase, F_0F_1-; Site-directed mutagenesis; Assembly; (*E. coli*) (Hatch, L. (1141) 183)

Cubic phase
N-Acylethanolamine; Hexagonal phase; Phosphatidylethanolamine (Ambrosini, A. (1148) 351)

Cultured hepatocyte
Dehydroepiandrosterone; Peroxisome; Enzyme induction; Structural requirement; (Rat) (Sakuma, M. (1169) 66)

Lipogenic enzyme; Pyruvate stimulation; Hormonal induction; (Rat) (Tomita, Y. (1170) 253)

Cultured human keratinocyte
Glycolipid; Acylglucosylceramide; Epidermoside; Epidermal cell; Ceramide monohexoside; (Human) (Hamanaka, S. (1167) 1)

Curve fitting
Glutamate transport; Kinetics (Ash, J.F. (1149) 109)

FTIR; Crystallin; Fourier self-deconvolution; Secondary structure; Polypeptide conformation; (Lens) (Lamba, O.P. (1163) 113)

CuZn superoxide dismutase
Glutathione *S*-transferase; Kidney; Mesangial cell; Epithelial cell (Davies, S.J. (1157) 204)

Cyanide
Cytochrome *bo*; Formate; (*E. coli*) (Moody, A.J. (1141) 321)

Cyanide binding
Photosystem II; Electron transfer; EPR; Ferroquinone complex; Q_A; Q_B (Koulougliotis, D. (1141) 275)

Cyanide-insensitive oxygen uptake
Pyridine nucleotide dehydrogenase; Oxygen uptake; Cyanobacterium; Photosynthesis; (*Anabaena* PCC 7120) (Howitt, C.A. (1141) 313)

Cyanide release
Sodium nitroprusside; Oxidation; Monocyte; Polymorphonuclear Leukocyte (Campbell, J.M. (1156) 327)

Cyanide-resistant respiration
Alternative oxidase; Mitochondrion; Ubiquinone pool (Q-pool); Electron transfer; (Plant) (Siedow, J.N. (1142) 165)

Cyanine dye
Liposome; Photophysics; Photosensitizer; Polymer film; Singlet oxygen (Krieg, M. (1151) 168)

Cyanobacterium
Antenna; Chlorophyll *a*; Photosystem I; Pump-probe spectroscopy; Ultrafast spectroscopy; (*Synechococcus*) (Lin, S. (1140) 6)

Proteoliposome; ATP synthase, H^+-; Plastoquinone: plastocyanin oxidoreductase; Energy transduction; Proton pumping; (*Synechococcus* 6716) (Krenn, B.E. (1140) 271)

Cyanide-insensitive oxygen uptake; Pyridine nucleotide dehydrogenase; Oxygen uptake; Photosynthesis; (*Anabaena* PCC 7120) (Howitt, C.A. (1141) 313)

Assimilatory sulfate reduction; Hydrogen sulfide : ferredoxin oxidoreductase; DNA sequence; Sulfate reduction; (*Synechococcus*) (Gisselmann, G. (1144) 102)

Ferredoxin; Electron transfer; Nitrogenase; (*A. variabilis*) (Yakunin, A.F. (1163) 124)

Flavodoxin; Enzyme property; Electron transfer; Synthesis regulation; (*A. sphaerica*) (Yakunin, A.F. (1164) 305)

Eukaryotic lipid; Prokaryotic lipid; γ-Linolenic acid; (*S. platensis*) (Quoc, K.P. (1168) 94)

Water stress; Membrane; Heterocyst gycolipid; Protein stability; (*N. Commune*) (Taranto, P.A. (1168) 228)

secY gene; Protein export; Secretion; Ribosomal protein operon; (*Synechococcus* PCC7942) (Nakai, M. (1171) 113)

nifH; Nitrogen fixation; Nitrogenase reductase; (*Anabaena*) (Murphy, S.T. (1171) 337)

CP-47; Transcription; Photosystem II; (*Synechococcus*) (Kulkarni, R.D. (1173) 329)

Cyanocobalamin β-ligand transferase
Cobalamin metabolism; Cob(III)alamin reductase; Rat liver; *cbl C, cbl D*, and *cbl E* mutant fibroblasts (Pezacka, E.H. (1157) 167)

Cyanogen
Carbonic anhydrase II; Salt bridge reagent; Molecular modeling (Ghenbot, G. (1161) 59)

α-Cyanohydroxycinnamate
Myocardium; Pyruvate dehydrogenase; Dichloroacetate; Mitochondrial pyruvate transporter; Donnan equilibrium (Bünger, R. (1151) 223)

***cyb*C gene**
Cytochrome *b*-562; Electron transport protein; Heme protein; Periplasmic protein; PCR; (*E. coli*) (Trower, M.K. (1143) 109)

Cyclic electron transport
Photoacoustic spectroscopy; Photosystem II; Photoinhibition; Thylakoid, isolated (Lapointe, L. (1142) 43)

Cyclic nucleotide
Phosphatase; Phosphotyrosine; Nucleotide binding phosphatase (Polya, G.M. (1159) 179)

Muscarinic receptor; Receptor antagonist; Signal transduction; cyclic GMP; (Rat large intestine) (Khare, S. (1179) 234)

Cyclic nucleotide-activated channel
Channel gating; Patch clamp; (Olfactory cell) (Kolesnikov, S.S. (1150) 63)

Cyclic nucleotide phosphodiesterase
Phosphatidic acid; (Rat thymic lymphocyte) (Marcoz, P. (1176) 129)

Cyclic voltammetry
Topa quinone; Redox potential; Acid-dissociation constant; Redox catalysis; Electronic structure (Kano, K. (1157) 324)

Cyclooxygenase
12-Lipoxygenase; Differentiaton, phorbol ester-induced; (Human erythroleukemia cell) (Mahmud, I. (1166) 211)

Cytokine; 15-HETE; 15-Lipoxygenase; Endothelial cell (López, S. (1170) 17)

Cyclophilin
Peptidyl prolyl *cis-trans* isomerase; Cyclosporin A; Multiplicity; (*S. cerevisiae*) (Hasumi, H. (1161) 161)

Cholesterol 7α hydroxylase; Alu sequence (Thompson, J.F. (1168) 239)

Cyclosporin
Anoxia; Reoxygenation; Mitochondrion; Enzyme release; (Rat liver) (Inoue, T. (1140) 313)

Cyclosporin A
Peptidyl prolyl *cis-trans* isomerase; Cyclophilin; Multiplicity; (*S. cerevisiae*) (Hasumi, H. (1161) 161)

Cynomolgus
Apolipoprotein C-III; Apolipoprotein A-IV; Cloning; Sequence analysis; (*M. fascicularis*) (Osada, J. (1172) 335)

Apolipoprotein A-II; Cloning; Sequence analysis; (*M. fascicularis*) (Osada, J. (1172) 340)

CYP17
Steroid 17α-hydroxylase; Cytochrome *P*-450 (Nason, T.F. (1171) 73)

CYP2D
Cytochrome *P*-450; Lidocaine metabolism; Hepatic microsome; (Rat) (Ohishi, N. (1158) 227)

***CYP*4AII**
Cytochrome *P*-450; Arachidonic acid; Fatty acid; ω-Hydroxylase; (Human kidney) (Palmer, C.N.A. (1172) 161)

Cysteine motif
Microsequence analysis; Archaebacterium; Evolution (Bergmann, U. (1173) 195)

Cysteine oxidation
DNA binding; Homeodomain; Octamer factor; POU domain (Rigoni, P. (1173) 141)

Cysteine proteinase
Papain; Hydrogen bonding; Cooperativity; Binding energy; Kinetic specificity; Enzyme inhibition (Liu, S. (1158) 264)

Calpain; p94; Calcium; Evolution (Sorimachi, H. (1160) 55)

Bleomycin hydrolase gene; Antitumor drug; (*S. cerevisiae*) (Magdolen, U. (1171) 299)

Malaria; Chemotherapy; Hemoglobin hydrolysis; (*P. vinckei*); (*P. falciparum*) (Rosenthal, P.J. (1173) 91)

Cysteine proteinase inhibitor
Monoclonal antibody; Stefin B; Epitope determination; Surface accessibility (Kopitar-Jerala, N. (1164) 75)

Calcium ionophore A23187; Cataract; E64; E64c; E64d; (Lens culture) (Azuma, M. (1180) 215)

Cystic fibrosis
Cystic fibrosis transmembrane conductance regulator (CFTR); Chloride ion permeability; 6-Methoxy-1-(3-sulfonatopropyl)quinolinium (SPQ); Fluorescence imaging; L cell (Dho, S. (1152) 83)

Bradykinin; Arachidonic acid release; Epithelial cell (Levistre, R. (1181) 233)

Cystic fibrosis transmembrane conductance regulator (CFTR)
Chloride ion permeability; Cystic fibrosis; 6-Methoxy-1-(3-sulfonatopropyl)quinolinium (SPQ); Fluorescence imaging; L cell (Dho, S. (1152) 83)

Cytoadhesion
Fibronectin; Integrin; Hemopoietic progenitor cell; Bone marrow; Interleukin 3 (Minguell, J.J. (1151) 120)

Cytochalasin binding
Plasma membrane actin; Actin; Walker tumor; G-actin-binding protein (Goodlad, G.A.J. (1145) 177)

Cytochrome
Heme *c*; Ferredoxin; Bean sprout (Hirasawa, M. (1141) 253)

Cytochrome *a*
Terminal oxidase; Oxidase; Cytochrome *o*; Alkalotolerant bacterium; (*Bacillus FTU*) (Muntyan, M.S. (1143) 142)

Cytochrome *b*-562
Electron transport protein; Heme protein; Periplasmic protein; *cyb*C gene; PCR; (*E. coli*) (Trower, M.K. (1143) 109)

Cytochrome *b*-559
Photosystem II; Reaction center; Redox potential; Photosynthesis (Ahmad, I. (1143) 239)

Ubiquinone; Respiration inhibition; Amino acid sequence; Mitochondrial DNA sequence; DNA; Molecular evolution (Degli Esposti, M. (1143) 243)

Cytochrome *b*-559
Oxygen evolution; FTIR; Photosystem II (Noguchi, T. (1143) 333)

Cytochrome *b*-561
Proton/electron transfer; Secretory vesicle; Ascorbic acid (Njus, D. (1144) 235)

Cytochrome b_5
Liposome; Phosphatidylcholine; LUV (Greenhut, S.F. (1149) 1)

Site-directed mutagenesis; Hydrophobicity; Lipid vesicle; Membrane binding (Tretyachenko-Ladokhina, V.G. (1153) 163)

Genetics; Expression; Distribution (Giordano, S.J. (1172) 95)

Cytochrome *b*-245
NADPH oxidase; Cytosolic factor; Oxidase activation; Chronic granulomatous disease; EBV-B lymphocyte (Morel, F. (1182) 101)

Cytochrome *b / c*
Energy-transducing system; Membrane protein assembly; Reaction center; Cytochrome *b/f*; Supercomplex (Joliot, P. (1141) 151)

Cytochrome *bc*
Nitric oxide reductase; Nitrite reductase; Denitrification; Nitric oxide; (*A. cycloclastes*) (Jones, A.M. (1144) 359)

Cytochrome bc_1 complex
Antimycin A; Structure–activity relationship; Electron transport (Tokutake, N. (1142) 262)

Mitochondrion; Electron transport inhibition; Structure–activity relationship (quantitative); (Rat liver) (Miyoshi, H. (1143) 23)

Purple sulfur bacterium; Cytochrome c_2; High potential iron protein; HiPIP (Tan, J. (1144) 69)

Cytochrome *b / f*
Energy-transducing system; Membrane protein assembly; Reaction center; Cytochrome *b/c*; Supercomplex (Joliot, P. (1141) 151)

Cytochrome *bf* complex
Chloroplast; Cytochrome structure; Protonmotive cycle; Electron donor (Hope, A.B. (1143) 1)

Cytochrome *bo*
Cyanide; Formate; (*E. coli*) (Moody, A.J. (1141) 321)

Cytochrome *bo* oxidase
Ubiquinol oxidase; Cytochrome *o*; Heme O; (*V. alginolyticus*) (Miyoshi-Akiyama, T. (1141) 283)

Cytochrome *c*
Reaction center; Electron transfer; Redox potential; Heme; Membrane potential; (*Rs. molischianum*) (Nagashima, K.V.P. (1140) 297)

Cytochrome c_1
Mitochondrion; Respiratory chain; Heme; Resonance Raman; Active site; (*R. sphaeroides*) (Lou, B.-S. (1144) 403)

Mitochondrion; Cytochrome-*c* reductase; cDNA; Targeting presequence; (*C. fasciculata*); (*B. caudatus*) (Priest, J.W. (1144) 229)

Cytochrome *P*-450 reductase; Reduction; Reduction rate; Superoxide radical; Electron reduction potential (Butler, J. (1161) 73)

Protein denaturation; Guanidine hydrochloride; Fluorescence line narrowing; Inhomogeneous broadening; Energy selection (Logovinsky, V. (1161) 149)

Low-molecular-weight monohemic cytochrome *c*; Protein sequence; Secondary structure prediction; Sulfate-reducing bacterium (Bruschi, M. (1162) 89)

Cytochrome c_2
Purple sulfur bacterium; Cytochrome bc_1 complex; High potential iron protein; HiPIP (Tan, J. (1144) 69)

cccA gene; Protein sequence; (Thermophilic bacterium PS3) (Fujiwara, Y. (1144) 213)

Electron transfer; Tetraheme cytochrome; Reaction center; bc_1 complex; (*Rps. viridis*) (Garcia, D. (1144) 295)

Cytochrome c_3
Laser flash photolysis; Phototitration; Reduction potential (Akutsu, H. (1140) 144)

Cytochrome *c*-553
Photosystem I; Reaction center complex; Subunit; Detergent; *psaF* gene; (*S. elongatus*) (Hatanaka, H. (1141) 45)

Mitochondrion; Ionic strength; Intermembrane space; Membrane fusion; Electron transport (Cortese, J.D. (1142) 194)

Nitrous oxide reductase; Denitrification; Kinetics; Cytochrome *c*-N_2O oxidoreductase; (*W. succinogenes*) (Zhang, C.-s. (1142) 253)

Electron acceptor; Primary electron donor; Extinction coefficient; (*H. chlorum*) (Kleinherenbrink, F.A.M. (1143) 77)

Yeast; Mitochondrion; Alternative pathway; (*C. parapsilosis*) (Camougrand, N. (1143) 135)

Cytochrome *c*-N_2O oxidoreductase
Cytochrome *c*; Nitrous oxide reductase; Denitrification; Kinetics; (*W. succinogenes*) (Zhang, C.-s. (1142) 253)

Cytochrome-*c* oxidase
Copper center; Proton translocation; Enzyme conformation; (Mitochondria) (Cooper, C.E. (1144) 149)

Mitochondrial biogenesis; mtDNA copy number; (Human) (Van den Bogert, C. (1144) 177)

Conformational dynamics; Subunit V; Antibody binding (Freedman, J.A. (1164) 138)

Leigh syndrome; Kinetics; Complex stability; Complex assembly; ELISA-titration (Zimmermann, P. (1180) 99)

Cytochrome-*c* reductase
Processing peptidase; Protein import; Mitochondrion; (Potato) (Emmermann, M. (1142) 306)

Mitochondrion; Cytochrome c_1; cDNA; Targeting presequence; (*C. fasciculata*); (*B. caudatus*) (Priest, J.W. (1144) 229)

Cytochrome *f*
Plastocyanin; Chromatography (Morand, L.Z. (1141) 105)

Cytochrome *o*
Quinol oxidase; Carbonyl cytochrome; Oxygen binding; Potentiometry; (*E. coli*) (Bolgiano, B. (1141) 95)

Ubiquinol oxidase; Cytochrome *bo* oxidase; Heme O; (*V. alginolyticus*) (Miyoshi-Akiyama, T. (1141) 283)

Terminal oxidase; Oxidase; Cytochrome *a*; Alkalotolerant bacterium; (*Bacillus FTU*) (Muntyan, M.S. (1143) 142)

Cytochrome oxidase
Membranous multilayer; X-ray absorption spectroscopy; EXAFS (George, G.N. (1142) 240)

Lacticacidemia; Pyruvate dehydrogenase complex; NADH-CoQ reductase; ATPase; Oligomycin sensitivity (Robinson, B.H. (1182) 231)

Cytochrome *P*-450
Diabetes-inducible cytochrome *P*-450; Streptozotocin; Purification; (Rat liver) (Toda, A. (1141) 245)

Allylisopropylacetamide; Apohemoprotein; (Rabbit liver microsome) (Golly, I. (1142) 74)

Membrane proliferation; KAR2p; SEC61p; Coinduction; Colocalization (Wiedmann, B. (1153) 267)

Testosterone; (Rat liver) (Célier, C. (1156) 15)

Peroxide; Peracid; Radical; Tumor promotion; EPR; Spin trapping; Benzoyl peroxide (Greenley, T.L. (1157) 23)

CYP2D; Lidocaine metabolism; Hepatic microsome; (Rat) (Ohishi, N. (1158) 227)

Reductase; cDNA cloning; Primary structure; (Mouse liver) (Ohgiya, S. (1171) 103)

Carcinogenesis; Polymerase chain reaction; Transcription (Traber, P.G. (1171) 167)

Development; Tissue specificity; (Kidney); (Liver) (Marie, S. (1172) 124)

*CYP*4AII; Arachidonic acid; Fatty acid; ω-Hydroxylase; (Human kidney) (Palmer, C.N.A. (1172) 161)

Calcium ion uptake; Manganese ion; Platelet activating factor (Montero, M. (1177) 127)

Spontaneously hypertensive rat (SHR); Family 3A cytochromes *P*-450; Kidney; Corticosterone; 6β-Hydroxycorticosterone (Ghosh, S. (1182) 152)

Cytochrome $P\text{-}450_{11\beta}$
P-450XIB1; Steroid; 11β-Hydroxylase; Substrate binding; Affinity labeling; Methyltrienolone (Ohnishi, T. (1161) 257)

Cytochrome $P\text{-}450_{14DM}$
Purification; Characterization; Lanosterol 14α-demethylase; Immunoaffinity chromatography; Liver; (Human) (Sonoda, Y. (1170) 92)

CYP17; Steroid 17α-hydroxylase (Nason, T.F. (1171) 73)

Cytochrome $P\text{-}450_{S21}$
NADPH–cytochrome-*P*-450 reductase; Absorbance spectrometry; Binding complex (Iwamoto, Y. (1159) 122)

Cytochrome $P\text{-}450_{scc}$
Molecular modeling; Sequence homology; Cholesterol; Membrane topology (Vijayakumar, S. (1160) 281)

Anti-peptide antibody; Monoclonal antibody; Epitope; Enzyme inhibition; Protein structure (Edwards, R.J. (1161) 38)

P-450 XIA1; Cholesterol binding site; Methoxychlor; Monooxygenase (Tsujita, M. (1161) 124)

Pregnenolone; Cholesterol; Hydroxycholesterol; Cholesterol side-chain cleavage; (Placenta) (Tuckey, R.C. (1163) 185)

ELISA; Mutant aromatase; Structure-function relationship (Kadohama, N. (1163) 195)

Structure-function; Heterologous expression; Androstenedione; Androstenedione hydroxylation; Polychlorinated biphenyl (Kedzie, K.M. (1164) 124)

(*n*–3) Fatty acid; Leukotriene; Icosanoid; Granulocyte; Fish oil (Von Schacky, C. (1166) 20)

Hydroxylation; Cholesterol; 27-Hydroxylase; (Pig liver mitochondria) (Lund, E. (1166) 177)

Liver metabolism; Essential fatty acid; Mass spectrometry; Phenobarbital (Oliw, E.H. (1166) 258)

Fatty acid; ω-Hydroxylase; Arachidonic acid; Omega hydroxylation; Kidney microsome; (Rabbit) (Sawamura, A. (1168) 30)

Lipoxin B_4; Leukotriene B_4; ω-Hydroxylation; Neutrophil; (Human) (Mizukami, Y. (1168) 87)

Cytochrome *P*-4502B4
N,*N*-Dimethylaniline; *N*-Oxygenation; (Rabbit liver microsomes) (Hlavica, P. (1158) 83)

Cytochrome *P*-450 2C, 2E and 3A
cDNA cloning; (Human); (Monkey liver) (Komori, M. (1171) 141)

Cytochrome *P*-4502E1
Expression; Dimethylnitrosamine; *p*-Nitrophenol; (*E. coli*) (Winters, D.K. (1156) 43)

Cytochrome *P*-450 reductase
Reduction; Reduction rate; Superoxide radical; Cytochrome *c*; Electron reduction potential (Butler, J. (1161) 73)

Cytochrome structure
Chloroplast; Cytochrome *bf* complex; Protonmotive cycle; Electron donor (Hope, A.B. (1143) 1)

Cytokine
Lipoprotein lipase; Adipocyte; Hormone; Transcription; cDNA; Genomic gene; Promoter (Enerbäck, S. (1169) 107)

15-HETE; Cyclooxygenase; 15-Lipoxygenase; Endothelial cell (López, S. (1170) 17)

Immunoglobulin superfamily; Interleukin 1 receptor; Cell proliferation; T cell; Cell cycle; (Human) (Tominaga, S.-i. (1171) 215)

Interleukin 4; Lymphocyte; Intestine; (Pig) (Bailey, M. (1171) 328)

IL-1ra; Growth factor; Synovial fibroblast; Receptor antagonist (Martel-Pelletier, J. (1175) 302)

Glycosaminoglycan; Tumor necrosis factor α; (Bovine vascular smooth-muscle cell) (Kaji, T. (1176) 20)

Interferon γ; Orbital fibroblast; Fibronectin; Collagen (Higgins, P.J. (1181) 23)

Preterm labor; Fetal membrane; Prostaglandin; Interleukin 1 receptor (Bry, K. (1181) 31)

Cartilage; Chondrocyte; Arthritis; Macrophage colony-stimulating factor; Interleukin 1 (Campbell, I.K. (1182) 57)

Cytolysin
Vesicle leakage; Lipid–protein interaction; Non-bilayer lipid; α-Hemolysin (Ostolaza, H. (1147) 81)

Cytolysis
Cholesterol; Liposome; θ-Toxin; Perfringolysin O; Erythrocyte; (*Cl. perfringens*) (Iwamoto, M. (1153) 89)

Cytolytic activity
Melittin; Peptide analog; Monoclonal antibody (Werkmeister, J.A. (1157) 50)

Cytometry
Fura-2; Calcium chelator; (Erythrocyte) (Lew, V.L. (1148) 152)

Cytoskeleton
Non-radiative energy transfer; Liposome–polymer interaction; Model membrane; Fluorescence; DSC; Quasi-elastic light scattering (Ringsdorf, H. (1153) 335)

O_2^- release; Cellular swelling; Plasma membrane; Neutrophil; (Guinea pig) (Miyahara, M. (1177) 61)

Adenosine deaminase deficiency; Severe combined immunodeficiency disease; Deoxyadenosine toxicity; Human T-lymphoblast; Cell swelling; (CCRF-CEM cell) (Bagnara, A.S. (1180) 163)

Cytoskeleton protein melting
Sodium ion–proton exchange; Sodium/potassium/chloride cotransport; Potassium/chloride cotransport; Shrinkage; Swelling; (Erythrocyte); (Rat) (Orlov, S.N. (1151) 186)

Cytosol
ATPase, Na^+/K^+-; Inhibitor protein; Protein purification; (Rat brain) (Chandra, S. (1144) 33)

Phospholipase A_2; Cell proliferation; Icosanoid; Pancreas; (Porcine) (Tokumoto, H. (1169) 236)

Cytosolic adenylate kinase
Thiamin diphosphate; Thiamin pyrophosphokinase; Thiamin triphosphate; Erythrocyte; (Human) (Egi, Y. (1160) 171)

Thiamin triphosphate; Enzyme kinetics; Single base substitution (Shioda, T. (1161) 230)

Cytosolic calcium
Platelet; Copper deficiency; Thrombin; Fura-2; (Rat) (Johnson, W.T. (1175) 263)

Cytosolic factor
NADPH oxidase; Cytochrome *b*-245; Oxidase activation; Chronic granulomatous disease; EBV-B lymphocyte (Morel, F. (1182) 101)

Cytosolic free calcium
Anoxia; LDH release; Cell viability; Calcium ion channel blocker; Verapamil; Nifedipine; Diltiazem; (Rat hepatocyte) (Gasbarrini, A. (1177) 1)

Aequorin; Sodium ion, intracellular; Magnesium ion, intracellular; LDH; Phosphorylation potential (Gasbarrini, A. (1178) 9)

Cytostatic
Liposome stability; Prodrug; 5-Fluoro-2′-deoxyuridine; Fluoropyrimidine; Freeze-fracture; Electron microscopy; (Colon tumor); (Serum) (Van Borssum Waalkes, M. (1148) 161)

Cytostatic effect
Liposome; Antibody; Recombinant; Tumor necrosis factor; Tumor cell (Morishige, H. (1151) 59)

Cytotoxicity
P-glycoprotein; Drug resistance; Glutathione *S*-transferase; (Ovary cell); (Chinese hamster) (McClean, S. (1177) 117)

Nitric oxide production; Tumor necrosis factor; Antitumor activity; (Human-mouse hybrid cell line) (Southern, C. (1177) 179)

Vinblastine; Transepithelial transport; P-glycoprotein; Multidrug resistance; (Kidney cell-line); (MDCK cell) (Hunter, J. (1179) 1)

Phospholipase A_2; Myotoxin; Snake venom; Myoblast (Bultrón, E. (1179) 253)

6-Mercaptopurine; Mycophenolic acid; Lymphoblastic leukemia (Stet, E.H. (1180) 277)

Methylmercaptopurine ribonucleoside; 6-Mercaptopurine; 5-Phosphoribosyl 1-pyrophosphate; Purine de novo synthesis; Lymphoblastic leukemia (Vogt, M.H.J. (1181) 189)

Islet cell; Nitric oxide donor; Rat; Macrophage; Tumor cell (Kröncke, K.-D. (1182) 221)

Liposome; Hemagglutinating virus of Japan (HVJ); Gene transfer, in vivo; Hepatitis B virus; T lymphocyte (Kato, K. (1182) 283)

D

Damaged or obsolete protein turnover
Ubiquitin; Proteolysis; Lens (Huang, L.L. (1175) 181)

Dansylcadaverine
Endotoxin; Glycolipid; Polymyxin B (David, S.A. (1165) 147)

Daunorubicin
Adriamycin; Adriamycin derivative; Anthracycline; Cardiotoxicity; Free radical; (Mouse) (Praet, M. (1149) 79)

DCCD-binding protein
ATP synthase; ATPase; Subunit c; Proteolipid; Ceroid-lipofuscinosis; Batten's disease; (Human mitochondria) (Higuti, T. (1173) 87)

DCCD inhibition
Sodium ion/proton antiporter; Sodium ion transport, light-driven; Sodium ion/proton exchange stoichiometry; Triple-tracer liquid scintillation counting; (*H. halobium*) (Konishi, T. (1140) 1)

ddC
Nucleoside diphosphate diacylglycerol; HIV; AZT; 3′-Deoxythymidine (Van Wijk, G.M.T. (1165) 45)

D1-D2-cyt *b*-559 complex
Triplet state; Photosystem II; Chlorophyll *a*; Pheophytin *a*; Absorbance spectrum (Van der Vos, R. (1140) 184)

Deamidation
Dipeptidyl peptidase IV; Growth hormone-releasing factor; Growth hormone-releasing factor analog; Substrate specificity (Martin, R.A. (1164) 252)

Defense mechanism
Lipoxygenase; Chemiluminescence; Phosphatidylcholine; Elicitor; (Soybean) (Kondo, Y. (1170) 301)

Deformability
($n-3$) Fatty acid; ($n-6$) Fatty acid; Aging; Fish oil; Safflower oil; (Erythrocyte) (Mills, D.E. (1149) 313)

Deglycosylation
Turkey ovomucoid; Trifluoromethanesulfonic acid; Proteinase inhibitor; Trypsin domain; Chymotrypsin domain (Dabich, D. (1164) 47)

Degradation
Gramicidin; Micelle; Tryptophan; Ultraviolet photolysis; Photolytic degradation; Rate constant (McKim, S. (1153) 315)

Esterification; HMG-CoA reductase (Saucier, S.E. (1166) 115)

Degradation protection
mRNA stability; mRNA, capped (Coutts, M. (1173) 49)

Dehydration
Phosphatidylcholine; Phosphatidylethanolamine; Hexagonal II phase; Lyotropic phase behavior; Freezing stress (Webb, M.S. (1145) 93)

Trehalose carrier; (*Saccharomyces cerevisiae*) (Eleutherio, E.C.A. (1156) 263)

Dehydroascorbate
Ascorbate; Oxidative stress; Reactive oxygen species; (Mouse) (Iheanacho, E.N. (1182) 15)

Dehydroascorbic acid reductase
Ascorbic acid; Se-dependent glutathione peroxidase; Glutathione transferase; Catalase; Hydrogen peroxide; (Insect) (Summers, C.B. (1156) 235)

Dehydroepiandrosterone
Peroxisome; Enzyme induction; Structural requirement; Cultured hepatocyte; (Rat) (Sakuma, M. (1169) 66)

Delayed luminescence
Thermal induction; Photosystem (Kaurov, Y.N. (1143) 97)

Delayed rectifier
Potassium ion current; Potassium ion channel; Epitope; Characterization; (Human) (Philipson, L.H. (1153) 111)

Brown adipose tissue; Potassium ion channel; Potassium ion conductance; Ion channel selectivity; Tetraethylammonium; (Rat) (Ruß, U. (1153) 249)

Delipidation
Bacteriorhodopsin; Purple membrane; Anesthetic; Opsin shift; Acid-base equilibrium; Schiff base (Messaoudi, S. (1140) 45)

Delocalized spin model
Photosynthesis; ENDOR; Photosystem II; Tyrosine D^+; Surrounding proton (Mino, H. (1144) 426)

Deme
Argentinean deme; Hexosaminidase; Lysosomal storage disease; G_{M2} gangliosidosis (Brown, C.A. (1180) 91)

Denaturation
Protein stability; Nuclease; Free energy; Component analysis; Molecular dynamics; (*S. aureus*) (Yamaotsu, N. (1163) 81)

Maltotetraose-forming amylase; D-Glyceraldehyde-3-phosphate dehydrogenase; Asynchronous unfolding; Maltotetraose; (*Alcaligenes*) (He, R.-Q. (1163) 315)

α-Crystallin; NMR, ^{1}H-; NMR, ^{31}P-; Protein structure; (Bovine lens) (Carver, J.A. (1164) 22)

Fluorometry; Acid phosphatase; Protein folding (Ostrowski, W.S. (1164) 319)

Denitrification
Cytochrome *c*; Nitrous oxide reductase; Kinetics; Cytochrome *c*-N_2O oxidoreductase; (*W. succinogenes*) (Zhang, C.-s. (1142) 253)

Nitric oxide reductase; Cytochrome *bc*; Nitrite reductase; Nitric oxide; (*A. cycloclastes*) (Jones, A.M. (1144) 359)

Density medium
Sugar; Permittivity; Dielectric increment; Dispersion; Electric field (Arnold, W.M. (1157) 32)

Deoxyadenosine toxicity
Adenosine deaminase deficiency; Severe combined immunodeficiency disease; Human T-lymphoblast; Cell swelling; Cytoskeleton; (CCRF-CEM cell) (Bagnara, A.S. (1180) 163)

3-Deoxy-D-*arabino*-heptulosonate 7-phosphate synthase
Aromatic compound; Tryptophan; (*S. rimosus*) (Stuart, F. (1161) 209)

2-Deoxy-D-glucose
Macrophage; Dexamethasone; Phorbol; Glucose; Hexokinase (Naftalin, R.J. (1148) 39)

Deoxyhemocyanin
Kinetics; Subunit; Hydrogen peroxide; (*P. interruptus*) (Andrew, C.R. (1163) 17)

3′-Deoxythymidine
Nucleoside diphosphate diacylglycerol; HIV; AZT; ddC (Van Wijk, G.M.T. (1165) 45)

Dephosphorylation
Phosphohistone; Phosphopeptide; (*Saccharomyces cerevisiae*) (Donella-Deana, A. (1177) 221)

Dephosphorylation pathway
Inositol phosphate; Thyrotropin-releasing hormone; (Tumor cell); (Rat) (Ruiz-Larrea, F. (1178) 63)

Depletion
Copper; Laccase; Mechanism; Reduction; Removal; (*R. vernicifcera*) (Li, J. (1160) 239)

Depolarization
Potassium ion channel; Calcium ion dependence; Patch clamp; Calcium ion concentration, intracellular; (Chick osteoclast) (Weidema, A.F. (1149) 63)

Depolymerization
Microtubule; Dynein; Critical concentration; Dilution; Calcium ion (Ohba, S. (1158) 323)

Dermal fibroblast
Interferon γ; Two-dimensional gel electrophoresis; Regulation; (Human) (Smith, T.J. (1181) 300)

Dermatan sulfate
LDL; Sulfated glycosaminoglycan; Chondroitin sulfate; Heparin; Fluorescence anisotropy (Gigli, M. (1167) 211)

Desaturase
Microsome; Liver; (Human) (Poisson, J.-P. (1167) 109)

Δ^5-Desaturase
Microsomal membrane; Phospholipid composition; Arachidonic acid; Fluidity; (Rat liver) (Leikin, A.I. (1165) 189)

Δ^6-Desaturase
γ-Linolenic acid; Seed; Membrane; Acylation; *Borago officinalis* (Galle, A.M. (1158) 52)

Δ^9-Desaturase
Stearoyl desaturase; Palmitoyl-ACP; Palmitoleoyl-ACP; Palmitoleic acid (Gibson, K.J. (1169) 231)

Desaturation
Icosapentaenoic acid; Elongation; HPLC; Linoleic acid; Linolenic acid; Polyunsaturated fatty acid; CaCo-2 cell line (Chen, Q. (1166) 193)

Chain-shortening; Deuterium; Absorption; Saturated fatty acid; (Human) (Emken, E.A. (1170) 173)

Δ^6-Desaturation
Icosatrienoic acid, -5(*Z*),11(*Z*),14(*Z*); Icosatetraenoic acid, -5(*Z*),11(*Z*),14(*Z*),17(*Z*); Fatty acid; (*Mortierella alpina*) (Jareonkitmongkol, S. (1167) 137)

Desensitization
Nicotinic acetylcholine receptor; FTIR; Secondary structure; Lipid–protein interaction; (*T. californica*) (Butler, D.H. (1150) 17)

Prostaglandin E_2 receptor; U937 cell; cyclic AMP; Adenylate cyclase (Loh, C.L. (1177) 43)

Detergent
Photosystem I; Reaction center complex; Subunit; Cytochrome *c*-553; *psaF* gene; (*S. elongatus*) (Hatanaka, H. (1141) 45)

Glycoprotein, P-; Glycoprotein; Multidrug resistance; ATPase; Phospholipid (Doige, C.A. (1146) 65)

Lipase; Enzyme purification; Stability; (*P. expansum*) (Stöcklein, W. (1168) 181)

Detoxification
ATP binding site; Multidrug resistance; P-glycoprotein; Glycoprotein; 3′ Untranslated region; (Winter flounder) (Chan, K.M. (1171) 65)

Detyrosination
Tubulin; Carboxypeptidase; (Brain); (Muscle) (Alonso, A.C. (1163) 26)

Deuterium
Chain-shortening; Desaturation; Absorption; Saturated fatty acid; (Human) (Emken, E.A. (1170) 173)

Development
L-Pipecolate oxidase; Mitochondrion; Peroxisome; Induction (Rao, V.V. (1164) 29)

Carnitine; Intestine; Uptake; Retention (Gross, C.J. (1170) 265)

Essential fatty acid; Stearoyl-CoA desaturase; CCAAT/enhancer-binding protein; mRNA (DeWille, J.W. (1170) 291)

Cytochrome *P*-450; Tissue specificity; (Kidney); (Liver) (Marie, S. (1172) 124)

Octamer; POU domain; Transcription factor; Homeodomain; Gene regulation (Verrijzer, C.P. (1173) 1)

Adhesion molecule; LFA-1; ICAM-1; Osteoclast (Kurachi, T. (1178) 259)

Developmental regulation
Myosin I; Membrane binding; (*D. discoideum*) (Urrutia, R.A. (1173) 225)

Dexamethasone
Macrophage; Phorbol; Glucose; 2-Deoxy-D-glucose; Hexokinase (Naftalin, R.J. (1148) 39)

α2,6-Sialyltransferase; Jejunal organ culture; Suckling rat (Hamr, A. (1157) 285)

HepG2 cell; Smoking; Lipoprotein lipid; Oleate; Epinephrine; Nicotine (Craig, W.Y. (1165) 249)

Glucocorticoid receptor; Arachidonic acid; Prostaglandin I_2; Cell culture; Smooth muscle cell (Petrichenko, I. (1166) 183)

Palmitoyl-CoA synthetase; Hepatoma cell; Isolated hepatocyte; 3-Thia fatty acid; Insulin; (Rat) (Wu, P. (1170) 118)

Acyl-CoA oxidase; Induction; Thia fatty acid; Insulin (Sørensen, H.N. (1171) 263)

Macrophage plasminogen activator; Plasminogen activator inhibitor; Zymography; Thioglycollate; Lipopolysaccharide; (Mouse) (Kung, S.K.P. (1176) 113)

Dextran
Mitochondrion; Adenylate kinase; Porin; Compartmentation; Intermembrane space (Gellerich, F.N. (1142) 217)

Mitochondrion; Outer mitochondrial membrane; Hexokinase; Compartmentation; Contact site; Intermembrane space (Wicker, U. (1142) 228)

Dextran-protein conjugate
Low-angle light scattering; Gel chromatography; Emulsifier; Molecular weight (Kato, A. (1159) 22)

Dextran sulfate
Sendai virus; Membrane fusion; Liposome; Glycosaminoglycan; Poly(ethylene glycol) (Zschörnig, O. (1148) 1)

Diabetes
Respiratory chain; Inhibitor; Gluconeogenesis; (Rat liver) (Owen, M.R. (1142) 11)

N-Myristoyl transferase; Vanadate; (Rat liver) (King, M.J. (1165) 259)

Insulin; Streptozotocin; Fish oil; Triacylglycerol; Cholesterol; Glucose; Glucose-6-phosphate dehydrogenase; (Rat) (Baltzell, J.K. (1167) 197)

Diacylglycerol; Acyltransferase; Essential fatty acid; Glycerolipid biosynthesis; Lipolysis (Mostafa, N. (1169) 189)

Calcium; Diabetic neuropathy; (Neuroblastoma cell) (Yorek, M.A. (1177) 215)

Phenylalanine hydroxylase; Vanadate; Phenylalanine hydroxylase expression (Green, A.K. (1180) 21)

Diabetes-inducible cytochrome *P*-450
Cytochrome *P*-450; Streptozotocin; Purification; (Rat liver) (Toda, A. (1141) 245)

Diabetes mellitus
Arachidonic acid; Cholesterol; Fatty acid; Glycerol permeability; Phospholipid; Renal cortical membrane; Brush-border membrane; Basolateral membrane; DPH; Fluorescence polarization (Ramsammy, L.S. (1146) 1)

Diabetic
Apolipoprotein; Isoform; Insulin deficiency; Fasting; [^{3}H]Leucine; (Rat) (Callow, M.J. (1168) 271)

Diabetic neuropathy
Diabetes; Calcium; (Neuroblastoma cell) (Yorek, M.A. (1177) 215)

Diacylglycerol
Monoacylglycerol acyltransferase; Lipid metabolism; Hepatoma/hepatocyte; Hybrid cell; Permeabilized cell (Coleman, R.A. (1165) 306)

Phospholipase D; Amnion cell; Phosphatidic acid; Signal transduction; (Human) (Mizunuma, M. (1168) 213)

Diabetes; Acyltransferase; Essential fatty acid; Glycerolipid biosynthesis; Lipolysis (Mostafa, N. (1169) 189)

FTIR; Phosphatidylserine; Calcium ion binding; Interaction (López-García, F. (1169) 264)

1,2-Diacylglycerol
Phospholipase D; Cholesterol; Phosphatidylcholine (Yamamoto, I. (1145) 293)

Molecular species; Glycerophospholipid; Peripheral nerve; Experimental diabetes (Zhu, X. (1168) 1)

Diacylglycerol kinase
Isozyme; Sphingosine; Jurkat cell (Yamada, K. (1169) 211)

Sphingosine; Exogenous diacylglycerol; Jurkat cell (Yamada, K. (1169) 217)

Diadenosine tetraphosphate
Ap_4A; Diadenosine tetraphosphate hydrolase; Fission yeast; (*S. pombe*) (Robinson, A.K. (1161) 139)

Diadenosine tetraphosphate hydrolase
Diadenosine tetraphosphate; Ap_4A; Fission yeast; (*S. pombe*) (Robinson, A.K. (1161) 139)

Diallyl disulfide
HMG-CoA reductase; Enzyme inactivation; Irreversible inactivation; Intramolecular disulfide (Omkumar, R.V. (1164) 108)

Diamagnetism
Magnetic field; Neuromuscular junction (Rosen, A.D. (1148) 317)

Diamide
Vesicle; Protein 4.1; High pressure; Erythrocyte; (Human) (Yamaguchi, T. (1147) 1)

Diamine oxidase
Spin trap; Plasma amine oxidase; Hydroxyl radical; EPR (Castellano, F.N. (1157) 162)

Diazoxide
ATP-sensitive potassium channel; Sulfonylurea; Glibenclamide (Ashcroft, S.J.H. (1175) 45)

Dicarbonyl
Histidase; *hut* gene; Methylglyoxal; Phenylglyoxal; (*S. griseus*) (White, P.J. (1163) 273)

Dicarboxylate
Beta oxidation; Muscle; Mitochondrion (Pourfarzam, M. (1141) 81)

Dicarboxylate carrier
Reconstitution; Transport mechanism; (Rat liver mitochondria) (Indiveri, C. (1143) 310)

Dicarboxylate transport
2-Oxoglutarate/malate translocator; Chloroplast; Reconstitution (Menzlaff, E. (1147) 13)

Malate; Protein modification; Vacuole; Tonoplast; (*Kalanchoë*) (Bettey, M. (1152) 270)

Dicarboxylic acid
Polyunsaturated fatty acid; Lipid peroxidation; GC-MS (Passi, S. (1168) 190)

Dichloroacetate
Myocardium; Pyruvate dehydrogenase; α-Cyanohydroxycinnamate; Mitochondrial pyruvate transporter; Donnan equilibrium (Bünger, R. (1151) 223)

Dicyclohexylcarbodiimide
Proton pump; Proton channel (Hassinen, I.E. (1144) 107)

DIDS
Erythrocyte; Band 3; DNDS; Monovalent cation transport; Cation transport; Sickle cell (Johnson, R.M. (1148) 7)

SITS; Chloride carrier; Charge pulse; Turgor pressure regulation; (*V. utricularis*) (Spieß, I. (1149) 93)

Dielectric increment
Sugar; Density medium; Permittivity; Dispersion; Electric field (Arnold, W.M. (1157) 32)

Dielectric relaxation
Melting curve; Oligonucleotide; DNA defect (Bonincontro, A. (1171) 288)

Dielectrophoresis
Cell surface; Membrane conductivity; Surface charge; (Friend erythroleukemia cell) (Gascoyne, P.R.C. (1149) 119)

Single cell manipulation; Force calculation; Electrorotation; Microstructure; Multi-electrode design; Field cage (Schnelle, T. (1157) 127)

Microring-ring electrode; Micromanipulation; Microtweezers; Electric field (Matsue, T. (1157) 332)

Electrorotation; Levitation; Dipole moment; Quadrupole moment (Washizu, M. (1158) 40)

Diet
Selenium; Selenoprotein; Glutathione peroxidase; Antioxidant; (Brain); (Rat) (Buckman, T.D. (1163) 176)

ATPase, Na^+/K^+-; Isoenzyme; Ouabain affinity; Sodium ion sensitivity; α-Linolenic acid; Brain membrane; (Weaned rat) (Gerbi, A. (1165) 291)

Cholesterol; Hypercholesterolaemia; Hypertriglyceridaemia; Phosphatidate phosphohydrolase; Triacylglycerol (Sessions, V.A. (1166) 238)

27-Hydroxycholesterol; 27-Hydroxylase; Oxysterol; LDL (Hasan, S.Q. (1182) 299)

Dietary cholesterol
LDL receptor; Cholesterol biosynthesis; HMG-CoA reductase; Lathosterol; (Rat) (Roach, P.D. (1170) 165)

Dietary fat
Solution hybridization; LDL receptor mRNA; Apolipoprotein mRNA; Infant nutrition; (Nonhuman primate) (Mott, G.E. (1169) 59)

Arachidonic acid; Linoleic acid; $(n-3)$ Fatty acid; Icosanoid; Icosapentaenoic acid; Highly unsaturated fatty acid; Plasma phospholipid (Lands, W.E.M. (1180) 147)

Difference spectroscopy
Manganese; Manganese catalase; Catalase; Photosystem II (Wells, W. (1144) 346)

Differential splicing
Collagen XII; Fibril-associated protein; Extracellular matrix (Trueb, J. (1171) 97)

recombinant DNA; hGH DNAc; Transient and stable expression; Eukaryotic expression vector; Adipogenic activity (Rincón-Limas, D.E. (1172) 49)

Differentiation
PP_i: fructose-6-phosphate 1-phosphotransferase; Fructose 2,6-bisphosphate; Biosynthesis; Carbohydrate metabolism; (*V. mungo*); (*V. radiata*) (Ashihara, H. (1156) 123)

Osteoclast; Active oxygen; Bone resorption (Suda, N. (1157) 318)

Plasmalogen; Fatty acid composition; Phospholipid; Phospholipid composition; N1E-115 (Murphy, E.J. (1167) 131)

Myeloid leukemia cell; ML-9; GM-CSF; (U937 cell) (Makishima, M. (1176) 245)

Insulin; Glucose; Glycolysis; Gluconeogenesis; Proximal tubule cell; (Rabbit) (Courjault, F. (1177) 147)

Cdc2 kinase; PCTAIRE; Cell cycle; (*D. discoideum*) (Michaelis, C. (1179) 117)

Differentiaton, phorbol ester-induced
Cyclooxygenase; 12-Lipoxygenase; (Human erythroleukemia cell) (Mahmud, I. (1166) 211)

Diffusion
Betaine; Transport; Mitochondrion; (Rat liver) (Porter, R.K. (1141) 269)

Diffusion coefficient
Macromolecule; Bilayer; Computer simulation; Lipid diffusion (Pink, D.A. (1148) 197)

Diffusivity
Stratum corneum lipid; Polymorphism (Lieckfeldt, R. (1150) 182)

α-Difluoromethylornithine
Polyamine; Renal hypertrophy; Renal hyperplasia; Testosterone; Antifolate CB 3717 (Manteuffel-Cymborowska, M. (1182) 133)

Dihydrosphingosine, synthetic racemic
Lipid fiber; Sphingosine, D-*erythro*- (Archibald, D.D. (1166) 154)

1,25-Dihydroxyvitamin D-3
mRNA stability; c-*myc*; HL-60 (Mangasarian, K. (1172) 55)

Myoblast; Arachidonic acid; Phospholipase A_2; Protein kinase C (De Boland, A.R. (1179) 98)

Lead; Calcium; NMR; (ROS 17/2.8 cell) (Schanne, F.A.X. (1180) 187)

Dilantin
Lipid; Phenytoin; Skeletal muscle disorder; Fatty acid; Triacylglycerol (Fletcher, J.E. (1168) 292)

1,2-*O*-Dilauryl-*rac*-glycero-3-glutaric acid-resorufin ester
Reverse micelle; Lipase; Kinetics; Conformation; Protein-membrane/interface interaction (Brown, E.D. (1161) 66)

Diltiazem
Anoxia; Cytosolic free calcium; LDH release; Cell viability; Calcium ion channel blocker; Verapamil; Nifedipine; (Rat hepatocyte) (Gasbarrini, A. (1177) 1)

Dilution
Microtubule; Dynein; Critical concentration; Depolymerization; Calcium ion (Ohba, S. (1158) 323)

Dimensionality
Electrostatics; Pressure; Calorimetry; Phospholipid (Montich, G. (1146) 17)

Dimeric myoglobin
Amino acid sequence; Myoglobin; Cooperativity; (*N. mutabilis*) (Parente, A. (1162) 1)

2-(4-Dimethylaminostyryl)-1-ethylpyridinium cation
Dye uptake; Phospholipid vesicle; Tetraphenylboron; Transmembrane potential (Sedgwick, E.G. (1146) 113)

***N*,*N*-Dimethylaniline**
Cytochrome *P*-4502B4; *N*-Oxygenation; (Rabbit liver microsomes) (Hlavica, P. (1158) 83)

***N*,*N*-Dimethylaniline *N*-oxidase**
Flavin-containing monooxygenase; Immunoblot; Western transfer; Sex; Age; Trimethylamine (Schlenk, D. (1156) 103)

Dimethylnitrosamine
Cytochrome *P*-4502E1; Expression; *p*-Nitrophenol; (*E. coli*) (Winters, D.K. (1156) 43)

Dimethylphosphatidylethanolamine
Phospholipid methylation; Brain membrane; Kinetics; Methylation; Phosphatidylethanolamine methylation; Monomethylphosphatidylethanolamine (Reitz, R.C. (1166) 139)

16,16-Dimethylprostaglandin
Prostaglandin; Glycogenesis; Pertussis toxin; (Cultured rat hepatocyte) (Okumura, T. (1176) 137)

Dimethylsulfoxide
ATPase, Ca^{2+}-; ATPase phosphorylation; Phosphorylation site; Inorganic phosphate (Mintz, E. (1162) 227)

Dimyristoylphosphatidylcholine
Sonicated vesicle; Microcalorimetry; Negative stain electron microscopy; Thermodynamical study (Kodama, M. (1169) 90)

Dimyristoylphosphatidylglycerol
Negative stain electron microscopy; Microcalorimetry; Crystalline cylindrical structure; Thermodynamic stability (Kodama, M. (1168) 243)

Dinitrogen reduction
Nitrogenase; Acid labile sulfide; (Alfalfa); (*R. meliloti*) (Miller, R.W. (1163) 31)

Dinitrosyl-iron dithiolate complex
Macrophage; Dinitrosyl-iron serum albumin complex; EPR; Nitric oxide; L-Arginine; Mononitrosyl-iron diethyldithiocarbamate complex (Vanin, A.F. (1177) 37)

Dinitrosyl-iron serum albumin complex
Macrophage; Dinitrosyl-iron dithiolate complex; EPR; Nitric oxide; L-Arginine; Mononitrosyl-iron diethyldithiocarbamate complex (Vanin, A.F. (1177) 37)

Di-*O*-acylglycerol
Circular dichroism; Lipase stereoselectivity (Uzawa, H. (1168) 253)

1,2-Dioctanoylglycerol
Phospholipase A_2; Arachidonic acid; 1,3-Dioctanoylglycerol; Prostaglandin B_1 oligomer; Superoxide; (Human neutrophil) (Rosenthal, M.D. (1177) 79)

1,3-Dioctanoylglycerol
Phospholipase A_2; Arachidonic acid; 1,2-Dioctanoylglycerol; Prostaglandin B_1 oligomer; Superoxide; (Human neutrophil) (Rosenthal, M.D. (1177) 79)

Dioxygenase
Essential fatty acid; Linoleic acid; Mass spectrometry; Fungal biosynthesis; Lipoxygenase (Brodowsky, I.D. (1168) 68)

Dipalmitoylphosphatidylcholine
Liposome; Agarose; Galactose; Laurdan; Fiberoptic sensor; DSC (Abrams, S.B. (1146) 127)

Dipeptide transport
Proton-coupled dipeptide transport; Epithelium; CaCo-2 cell; Cephalosporin; pH, intracellular; (Intestine) (Thwaites, D.T. (1151) 237)

Dipeptidyl aminopeptidase
Gene dosage; Proprotein; N-terminal sequence (Peters, I.D. (1171) 247)

Dipeptidylcarboxypeptidase
Proline-specific peptidase; Imino acid; Enzymatic peptide synthesis (Maruyama, S. (1162) 72)

Dipeptidyl peptidase IV
Growth hormone-releasing factor; Growth hormone-releasing factor analog; Substrate specificity; Deamidation (Martin, R.A. (1164) 252)

Diphenylhexatriene
Phenolic compound; Platelet; Fluorescence; Membrane fluidity; Adenylate cyclase; (Bovine blood) (Kitagawa, S. (1179) 277)

Diphytanylglycerol diether analog
Phosphatidylglycerophosphate; Phosphatidylglycerophosphate methyl ester; Thin-layer chromatography; NMR; FABMS; (*H. salinarium*); (*H. cutirubrum*) (Kates, M. (1169) 46)

Dipole moment
Dielectrophoresis; Electrorotation; Levitation; Quadrupole moment (Washizu, M. (1158) 40)

Dipotassium hydrogen phosphate
Sodium ion efflux; Aluminum; (Barnacle fiber) (Bittar, E.E. (1148) 123)

Direct repeat
tRNA gene; Promoter; (*T. celer*); (*Archaea*) (Klenk, H.-P. (1172) 236)

Discoidal complex
Synthetic peptide; Apolipoprotein; Phospholipid; Lipid–protein interaction (Corijn, J. (1170) 8)

Discoidal particle
Melittin; NMR, solid-state; Phosphatidylcholine bilayer; Cholesterol; Lipid polymorphism (Monette, M. (1149) 319)

Cholesterol gallstone; Nucleation time; Apolipoprotein A-I; Vesicle; Transmission electron microscopy (Tao, S. (1166) 25)

Disk membrane
Rhodopsin; Rhodopsin phosphorylation; Monoclonal antibody; Plasma membrane (Hsu, Y.-T. (1145) 85)

Dispersion
Sugar; Density medium; Permittivity; Dielectric increment; Electric field (Arnold, W.M. (1157) 32)

Dissociation constant
Blood coagulation; Lipid membrane; Ellipsometry (Giesen, P.L.A. (1147) 125)

Distal · His
Hemoglobin; Polymorphism; Midge (*Tokunagayusurika*) (Fukuda, M. (1157) 185)

Distance geometry
Tachyplesin I; Polyphemusin II; NMR, ^{1}H-; anti-HIV peptide; (XPLOR) (Tamamura, H. (1163) 209)

Distance-geometry calculation
Paliurine B; Ionophore; ROESY spectrum; Restrained energy minimization; Rotating frame nuclear Overhauser effect (Yu, C. (1156) 334)

Opioid peptide; Restrained molecular dynamics simulation; ROESY spectrum; NMR (Chuang, L.-C. (1158) 209)

Distribution
Phospholipid; Transmembrane mobility; Spin label; (Erythrocyte); (Mouse) (Müller, P. (1151) 7)

Cytochrome b_5; Genetics; Expression (Giordano, S.J. (1172) 95)

Disulfide
Endoproteinase Lys-C; Glutenin; Wheat (Tao, H.P. (1159) 13)

S100; Calcium; Lipid; Growth factor; Neurotrophic factor (Barger, S.W. (1160) 105)

Disulfide bonding
Lens crystallin; Cataract; Aspirin (Qin, W. (1181) 103)

Disulfide bridge
Serum albumin; Low level variant; Amino acid substitution; Protein electrophoresis, two-dimensional (Brennan, S.O. (1182) 46)

Disulfide crosslinking
Stratum corneum; Percutaneous absorption; Absorption (Goates, C.Y. (1153) 289)

Dithiobis(2-nitrobenzoic acid) derivative
Organic anion transporter; Organic sulfhydryl reagent; Binding protein; Loop diuretic; (Liver) (Blumrich, M. (1149) 278)

Dithiothreitol
Erythrocyte shape; Stomatocytosis; Phospholipid asymmetry (Truong, H.-T.N. (1150) 51)

Erythrocyte shape; Aminophospholipid translocation (Truong, H.-T.N. (1150) 57)

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Cation; NADP(H) binding site; Transhydrogenase; Enzyme function; (Beef heart mitochondria) (Sazanov, L.A. (1144) 225)

Electrical breakdown; Cell fusion; Hemolysis; Phospholipid asymmetry; Osmotic swelling; (Erythrocyte) (Song, L.Y. (1148) 30)

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HMG-CoA lyase; HMG[= S]CoA (Hruz, P.W. (1162) 149)

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Bovine hemoglobin; Chemically modified hemoglobin; Oxygen transport; Retention time (Ilan, E. (1163) 257)

DNA
Cytochrome *b*; Ubiquinone; Respiration inhibition; Amino acid sequence; Mitochondrial DNA sequence; Molecular evolution (Degli Esposti, M. (1143) 243)

Highly repetitive DNA; Bent DNA; DNA binding protein; Nuclear scaffold; Protein characterization; (Rat liver) (Hibino, Y. (1174) 162)

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DNA binding
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Poly(ADP-ribose) polymerase; Expression; Immunoblotting; NAD^+; (*E. coli*) (Thibodeau, J. (1163) 49)

Histone-like protein; Supercoiling; Nucleoid; (*B. subtilis*) (Le Hégarat, F. (1172) 101)

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Plant transcription; CpG island; Electrophoretic mobility shift assay; DNA methylation (Ehrlich, K.C. (1172) 108)

Collagen; Bidirectional transcription; Promoter (Schmidt, C. (1174) 1)

Topoisomerase; Genetic recombination; DNA enzymology; DNA–protein interaction (Myers, R. (1174) 31)

DNA; Highly repetitive DNA; Bent DNA; Nuclear scaffold; Protein characterization; (Rat liver) (Hibino, Y. (1174) 162)

DNA cloning
Purification; Amino acid sequence; Renal dipeptidase; Expression; Northern blotting; (Mouse) (Satoh, S. (1163) 234)

Renal dipeptidase; genomic DNA; DNA sequence; (Human) (Satoh, S. (1172) 181)

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Etoposide; Interleukin 1α; Melanoma cell; DNA repair (Monti, E. (1180) 231)

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DNA enzymology
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DNA methylation
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DNA relaxation
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DNA repair
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Etoposide; Interleukin 1α; Melanoma cell; DNA damage (Monti, E. (1180) 231)

DNA replication
Alu family; Transcription (Saëgusa, Y. (1172) 274)

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Origin; Transcript; cDNA; Initiation zone; (Mammalian) (Wu, C. (1174) 258)

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Calmodulin; Genomic organization; (*N. crassa*) (Melnick, M.B. (1171) 334)

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DNA topoisomerase I
Mitochondrion; Platelet; Scleroderma; Topotecan; (Human) (Kosovsky, M.J. (1164) 101)

DNA transfection
gp80; Clusterin; Protein secretion; Apoptosis (Pilarsky, C. (1179) 306)

DNAase I footprinting
Pancreatic ribonuclease gene; Mobility shift assay; (Bovine) (Carsana, A. (1171) 147)

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Restriction endonuclease; Synthetic DNA duplex (Degtyarev, S.K. (1172) 89)

DNA binding protein; Topoisomerase; Genetic recombination; DNA enzymology (Myers, R. (1174) 31)

cDNA
Mitochondrion; Cytochrome-*c* reductase; Cytochrome c_1; Targeting presequence; (*C. fasciculata*); (*B. caudatus*) (Priest, J.W. (1144) 229)

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Pancreatitis-associated protein; Gene expression; (Human); (Mouse) (Itoh, T. (1172) 184)

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Mitochondrion; NADH : ubiquinone oxidoreductase; Complex I; (*N. crassa*) (Duarte, M. (1172) 327)

α_2-Macroglobulin; Receptor; (Mouse) (Van Leuven, F. (1173) 71)

Insulin-like growth factor; IGF-II; mRNA; (Sheep) (Demmer, J. (1173) 79)

Biglycan; (Aorta); (Smooth muscle cell); (Bovine) (Torok, M.A. (1173) 81)

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Peptide YY; Gene structure; Nucleotide sequence; Alternative splicing; (Human) (Kohri, K. (1173) 345)

DNAJ; Monoclonal antibody; Nucleotide sequence; Heat-shock protein; (Human) (Chellaiah, A. (1174) 111)

Interferon; Expression; Antiviral protein; (Flatfish) (Tamai, T. (1174) 182)

Fibromodulin gene; Amino acid sequence; Gene structure; (Human) (Antonsson, P. (1174) 204)

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Origin; Transcript; Sequence; DNA replication; (Mammalian) (Wu, C. (1174) 241)

Origin; Transcript; DNA replication; Initiation zone; (Mammalian) (Wu, C. (1174) 258)

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eIF4A; Initiation factor; Translation; Nucleotide sequence; (Rice) (Nishi, R. (1174) 293)

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Congenital cataract; ζ-Crystallin; RNA splicing (Rodriguez, I.R. (1180) 44)

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Ribonucleotide reductase; M2 subunit; Hydroxyurea; (Hamster) (Chaudhuri, M.M. (1171) 117)

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Protein phosphatase; Amino acid sequence; Evolution; (Human) (Brewis, N.D. (1171) 231)

Nucleoside diphosphate kinase; Spinach (Zhang, J. (1171) 304)

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Chloroplast ribosome; Ribosomal protein L12; (Rye); (*S. cereale* L.) (Schmidt, M. (1172) 349)

Transferrin; Horse; Iron-binding protein; (*E. caballus*) (Carpenter, M.A. (1173) 230)

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Carboxylesterase; Nucleotide sequence; Es-male; (Mouse liver) (Aida, K. (1174) 72)

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Zona pellucida; cDNA; Oocyte; Sperm-binding protein; Nucleotide sequence; (Pig) (Yurewicz, E.C. (1174) 211)

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Protein phosphatase; Amino acid sequence; Isoform; Chromosomal localization; (Human) (Barker, H.M. (1178) 228)

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mtDNA
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Growth hormone gene; PCR; (Silver carp); (Fish) (Hong, Y. (1174) 285)

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Regulatory element; Steroid hormone (Lambert, J. (1172) 190)

DNAJ
cDNA; Monoclonal antibody; Nucleotide sequence; Heat-shock protein; (Human) (Chellaiah, A. (1174) 111)

DnaJ
cDNA sequence; Sequence comparison; (Human) (Oh, S. (1174) 114)

DNDS
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Docosahexaenoic acid
Icosapentaenoic acid; Polyunsaturated fatty acid; Prostanoid synthesis (Raederstorff, D. (1165) 194)

Lipoprotein lipase; Adipose tissue; (Chick embryo) (Speake, B.K. (1165) 263)

Icosapentaenoic acid; Pancreatic lipase; (Man) (Krokan, H.E. (1168) 59)

Docosatetraenoic acid
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Dolichol; Lipid conversion; Bovine thyroid (Van Dessel, G. (1167) 307)

Dolichol
Lipid transfer; Lipoprotein; HDL; VLDL (Van Dessel, G. (1166) 64)

Dolichoic acid; Lipid conversion; Bovine thyroid (Van Dessel, G. (1167) 307)

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Dolichol pathway
Lipid, GlcNAc; Topography; Proteolysis; Microsome; *N*-acetylglucosaminyltransferase (Kean, E.L. (1168) 321)

Dolichyl monophosphate
Cholesterol; Polyisoprenoid; Isoprene; Liver; Brain; (Rat) (Löw, P. (1165) 102)

Donnan equilibrium
Myocardium; Pyruvate dehydrogenase; Dichloroacetate; α-Cyanohydroxycinnamate; Mitochondrial pyruvate transporter (Bünger, R. (1151) 223)

Donnan potential
Myosin; Nucleotide binding; Charge effect (Bartels, E.M. (1157) 63)

DOPA
Free radical; Tyrosinase; Protein; Reactive group (Simpson, J.A. (1156) 190)

Topa; Tyrosinase; Melanin; Melanin biosynthesis; Melanogenesis (Rodríguez-López, J.N. (1160) 221)

DOPC
Phase equilibrium; Vesicle formation; Glycerol/water mixture; X-ray diffraction; NMR, ^{31}P- (Johansson, L.B.-Å. (1149) 285)

Doppler scattering
Gramicidin; Intrachannel velocity; Velocity, ion; Laser Doppler velocity (Macias, F. (1153) 331)

Down-regulation
Glucocorticoid receptor; Immunoassay; Receptor down-regulation; Immunospecificity; (AtT-20 cell) (Hendry, III, W.J. (1178) 176)

G protein; Receptor, tyrosine kinase; Receptor, ion channel (Lohse, M.J. (1179) 171)

Down's syndrome
Gene dosage; Interferon-n-α receptor (Gerdes, A.-M. (1181) 135)

Doxorubicin
Liposome; Thermosensitive liposome; Long-circulating liposome; Ganglioside GM1; Drug delivery system; Hyperthermia; Colon 26 carcinoma (Maruyama, K. (1149) 209)

Transmembrane pH gradient; pH gradient; Liposome; LUV (Harrigan, P.R. (1149) 329)

Liposome; Drug delivery; Remote loading; Amphipathic base; Ammonium sulfate gradient (Haran, G. (1151) 201)

N-Hydroxysuccinimide ester; Serum albumin; Surface pH; Fatty acid sensor (Demant, E.J.F. (1156) 151)

Liposome; Ganglioside GM1; Reticuloendothelial system (Parr, M.J. (1168) 249)

DPH
Arachidonic acid; Cholesterol; Diabetes mellitus; Fatty acid; Glycerol permeability; Phospholipid; Renal cortical membrane; Brush-border membrane; Basolateral membrane; Fluorescence polarization (Ramsammy, L.S. (1146) 1)

Plasma membrane; Microheterogeneity; TMA-DPH; Fluorescence; Frequency domain fluorometry; (Rat liver hepatocyte) (Ferretti, G. (1147) 245)

Temperature adaptation; Bilayer order; Fluorescence anisotropy; *trans*-Parinaric acid; Time-resolved fluorescence; (Vertebrate brain membrane) (Behan-Martin, M.K. (1151) 216)

DPPC
POPG; Phase property; NMR; Chemical shift anisotropy; Lung surfactant (Wiedmann, T. (1167) 114)

D1 protein
Thermoluminescence; Oxygen evolution; Herbicide resistance; Photosynthesis; (*Synechococcus* PCC7942) (Gleiter, H.M. (1140) 135)

Energy minimization; Modeling; Herbicide binding (Egner, U. (1142) 106)

Bicarbonate; Electron transport; Chlorophyll fluorescence; Photosystem I; Reaction center II; (*L. gibba*) (Gong, H. (1142) 115)

Electron transport; Light stress; Oxidative damage; Photosystem II; Reaction center; Proteolysis (Aro, E.-M. (1143) 113)

Photosystem II; Reaction center; Photoinhibition; Photosynthesis (Friso, G. (1144) 265)

Drug carrier
Lipid vesicle; Cell uptake; Model membrane; Biodistribution (Blume, G. (1146) 157)

Sulfatide; Liposome; Lipoprotein; pH sensitivity (Viani, P. (1147) 73)

Microsphere; Filtration; Spleen macrophage; Kupffer cell; Spleen; Liver (Moghimi, S.M. (1157) 233)

Drug delivery
Apolipoprotein B; Liposome; Drug targeting (Lundberg, B. (1149) 305)

Liposome; Remote loading; Doxorubicin; Amphipathic base; Ammonium sulfate gradient (Haran, G. (1151) 201)

Sendai virus; Virosome; Fusion; Liver (Bagai, S. (1152) 15)

Amphotericin B; Nystatin; Pyranine; Ion current; Liposome (Lambing, H.E. (1152) 185)

Drug delivery system
Liposome; Thermosensitive liposome; Long-circulating liposome; Ganglioside GM1; Hyperthermia; Doxorubicin; Colon 26 carcinoma (Maruyama, K. (1149) 209)

Liposome; Controlled drug release; 5-Fluorouracil; Reverse-phase evaporation method; Extrusion method (Elorza, B. (1153) 135)

Drug efflux
Multidrug resistance; Amphiphile; Membrane biophysical property; Fatty acid (Callaghan, R. (1175) 277)

Drug–membrane interaction
Neutron diffraction; (−)-Δ^8-Tetrahydrocannabinol; Membrane multilayer (Martel, P. (1151) 51)

Drug-metabolizing enzyme
Carbonyl reductase; Acetohexamide reduction; Kinetic mechanism; (Rabbit kidney) (Higuchi, T. (1158) 23)

Drug resistance
MDR; Multidrug resistance; Mutagenesis; Topology; Membrane orientation; P-glycoprotein (Zhang, J.-T. (1153) 191)

P-glycoprotein; Cytotoxicity; Glutathione *S*-transferase; (Ovary cell); (Chinese hamster) (McClean, S. (1177) 117)

Drug retention
Liposome; Vincristine; Lipid composition; pH, internal; Internal buffering capacity (Boman, N.L. (1152) 253)

Drug targeting
Plasminogen; Poly(ethylene glycol); Long-circulating liposome; Liposome; Cryptosome; Protein binding; Biodistribution (Blume, G. (1149) 180)

Drug delivery; Apolipoprotein B; Liposome (Lundberg, B. (1149) 305)

Immunoliposome; Methotrexate; Placental alkaline phosphatase; Alkaline phosphatase; Antibody; Tumor cell A431 (Jones, M.N. (1152) 231)

Avidin; Biotin; Streptavidin; Heparin; Biocompatibility; (Erythrocyte) (Muzykantov, V.R. (1179) 148)

Drug transport
Intestinal epithelium; HT29; Partition coefficient (Wils, P. (1177) 134)

DSC
1-Palmitoylphosphatidylcholine; Lyso-PAF; PAF; Hexagonal H_{II} phase; NMR, ^{31}P- (Salgado, J. (1145) 284)

Asymmetric mixed-chain phosphatidylcholine; Phosphatidylcholine; Mixed interdigitated bilayer; Phase transition behavior (Huang, C. (1145) 298)

Liposome; Dipalmitoylphosphatidylcholine; Agarose; Galactose; Laurdan; Fiberoptic sensor (Abrams, S.B. (1146) 127)

Critical aggregate concentration (CAC); Morphology; Peptidic lipid; Self assembly (Shimizu, T. (1147) 50)

Fenvalerate; Insecticide; Fluorescence polarization; Membrane fluidity (Sarkar, S.N. (1147) 137)

Protein–lipid interaction; Supported bilayer; FTIR; NMR; Order parameter (Reinl, H.M. (1151) 127)

Phosphatidylethanolamine; Hydrophobic molecule; Lipid polymorphism; X-ray diffraction (Lohner, K. (1152) 69)

Sphingosine; Stearylamine; Phosphatidylserine; NMR, ^{31}P- (López-García, F. (1153) 1)

Cholesterol; Phosphatidylcholine; Phase transition; Unsaturation; Lipid–cholesterol interaction (Hernandez-Borrell, J. (1153) 277)

Non-radiative energy transfer; Liposome–polymer interaction; Cytoskeleton; Model membrane; Fluorescence; Quasi-elastic light scattering (Ringsdorf, H. (1153) 335)

Irreversible denaturation; Thermodynamics; EPSP synthase (Merabet, E.K. (1161) 272)

α_2-Macroglobulin; Trypsin; Light scattering; Calorimetry; Conformational change (Middaugh, C.R. (1161) 328)

DT-Diaphorase
NAD(P)H : quinone reductase; Antioxidant enzyme; Superoxide dismutase; Catalase; Glutathione reductase; Oxygen toxicity; Lung (Whitney, P.L. (1156) 275)

Duodenum
Retinol; Cellular retinol-binding protein, type II; (Chick) (Goda, T. (1168) 153)

Human gastric lipase; Monoclonal antibody; Immunoaffinity chromatography; ELISA; Gastric lipase; Enzyme purification (Aoubala, M. (1169) 183)

Duplicated targeting sequence
ATP synthase assembly; Mitochondrion; Mitochondrial import; Allotopic expression; Site-directed mutagenesis; (Yeast) (Papakonstantinou, T. (1144) 22)

Dye uptake
2-(4-Dimethylaminostyryl)-1-ethylpyridinium cation; Phospholipid vesicle; Tetraphenylboron; Transmembrane potential (Sedgwick, E.G. (1146) 113)

Dynamic light scattering
Staphylokinase; X-ray scattering small-angle; Solution structure; Thrombolytic therapy; Protein conformation (Damaschun, G. (1161) 244)

Dynamics
Actin; Regulated filament; Tropomyosin; Protein conformation; Polarized fluorescence (Borovikov, Y.S. (1163) 280)

Dynein
Microtubule; Critical concentration; Depolymerization; Dilution; Calcium ion (Ohba, S. (1158) 323)

Dysopsonin
Kupffer cell; Liver endothelial cell; Colloidal gold; Polystyrene microsphere; Opsonin; (Rat liver) (Moghimi, S.M. (1179) 157)

Dystrophin
Dystrophin-related protein; Immunoassay (Koga, R. (1180) 257)

Dystrophin-related protein
Dystrophin; Immunoassay (Koga, R. (1180) 257)

E

E64
Cysteine proteinase inhibitor; Calcium ionophore A23187; Cataract; E64c; E64d; (Lens culture) (Azuma, M. (1180) 215)

E64c
Cysteine proteinase inhibitor; Calcium ionophore A23187; Cataract; E64; E64d; (Lens culture) (Azuma, M. (1180) 215)

E64d
Cysteine proteinase inhibitor; Calcium ionophore A23187; Cataract; E64; E64c; (Lens culture) (Azuma, M. (1180) 215)

Eadie-Hofstee plot
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EBV-based expression vector
COS-7 cell; G985 MCAD mutation; Subcellular location; Protein instability (Jensen, T.G. (1180) 65)

EBV-B lymphocyte
NADPH oxidase; Cytochrome *b*-245; Cytosolic factor; Oxidase activation; Chronic granulomatous disease (Morel, F. (1182) 101)

Ectoenzyme
NAD glycohydrolase; ADP-ribose uptake; ADP-ribose transport; (Human); (Erythrocyte) (Kim, U.-H. (1178) 121)

Ectonucleotidase
ATPase, ecto-; Purine nucleotide; Synaptosome; Nucleotidase; (Bovine brain) (Hohmann, J. (1152) 146)

EDTA
Cobalt(II); Cobalt(III); Hydroxyl radical; Fe(III) catalysis (Eberhardt, M.K. (1157) 102)

Iodide; Horseradish peroxidase; NMR (Modi, S. (1162) 121)

aEF-1α
EF-Tu; Archaebacterium; Thermostability; Urea denaturation (Masullo, M. (1162) 35)

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Oxidative phosphorylation; Energy conservation; Mitochondrion; (Potato tuber) (Groen, B.H. (1140) 37)

Efflux
Anion efflux pump; Efflux inhibitor; Efflux route; (L1210 cell); (Mouse) (Henderson, G.B. (1152) 91)

Efflux inhibitor
Anion efflux pump; Efflux; Efflux route; (L1210 cell); (Mouse) (Henderson, G.B. (1152) 91)

Efflux route
Anion efflux pump; Efflux; Efflux inhibitor; (L1210 cell); (Mouse) (Henderson, G.B. (1152) 91)

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EF-Tu
aEF-1α; Archaebacterium; Thermostability; Urea denaturation (Masullo, M. (1162) 35)

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Egg-white protein
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Ehrlich ascites tumor cell
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Eicosa
See Icosa

eIF-2α
T cell; Translation; Phosphorylation; Mitogen; eIF-4α (Boal, T.R. (1176) 257)

eIF-4α
T cell; Translation; Phosphorylation; Mitogen; eIF-2α (Boal, T.R. (1176) 257)

Elastase
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α_1-Proteinase inhibitor; Peptide bond cleavage; Amino acid sequencing; Enzyme kinetics; (*P. aegurinosa*) (Padrines, M. (1163) 61)

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Light harvesting complex; Bacteriochlorophyll; Liposome; (Photosynthetic bacteria); (*Rb. capsulatus*) (Jackson, J.B. (1144) 199)

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Modulation analysis; Chlorophyll center; Reaction center; Photosystem I; (Bacteria); (Spinach) (Davis, I.H. (1143) 183)

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Anisotropic electron spin polarization; Photosynthesis; Bacterium; EPR; (*R. rubrum*) (Hore, P.J. (1141) 221)

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Electron transport inhibition
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Electrical breakdown; Electropermeabilization (Genco, I. (1149) 10)

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Human gastric lipase; Monoclonal antibody; Immunoaffinity chromatography; Duodenum; Gastric lipase; Enzyme purification (Aoubala, M. (1169) 183)

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Ellagitannin
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Endo-β-1,4-xylanase
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Endocytosis
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Endothelin
Metalloproteinase; Endothelin-converting enzyme; (Porcine lung membrane) (Sawamura, T. (1161) 295)

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Endothelin-converting enzyme
Metalloproteinase; Endothelin; (Porcine lung membrane) (Sawamura, T. (1161) 295)

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Endotoxin
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Pseudomonal elastase; Bacterial proteinase; Septic shock; Low resistant shock; (*Pseudomonas aeruginosa*) (Hossain Khan, M.M. (1182) 83)

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Protein conformation; Toxin; Circular dichroism; (*B. thuringiensis*) (Venugopal, M.G. (1159) 185)

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α-Amylase; Isozyme purification; Active center; Subsite structure; (Barley malt) (Ajandouz, E.H. (1159) 193)

Energy conservation
Oxidative phosphorylation; Efficiency; Mitochondrion; (Potato tuber) (Groen, B.H. (1140) 37)

Energy coupling
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ATP synthase; Enzyme kinetics; Proton translocation; pH difference determination; Fluorescent probe (Fregni, V. (1143) 215)

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Energy minimization
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Energy quenching
Photosynthesis; Light harvesting complex; Fluorescence quenching; Heat evolution; Optoacoustic spectroscopy (Mullineaux, C.W. (1143) 235)

Energy selection
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Energy-transducing system
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Energy transduction
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ATP synthase, H^+-; Enzyme activation; Enzyme regulation; Proton gradient; (Cyanobacteria); (Chloroplasts) (Krab, K. (1141) 197)

Microsecond electric field pulse; Membrane potential; Fast energy transduction (Eynard, N. (1144) 391)

Energy transfer
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Light harvesting complex; Picosecond fluorescence; Fluorescence quenching; High-energy state (Mullineaux, C.W. (1141) 23)

Light-harvesting; Antenna complex; LH1; Fluorescence spectroscopy; Photosynthesis; (*Rs. rubrum*) (Visschers, R.W. (1141) 238)

Chlorophyll; Fluorescence; Light harvesting complex I; Photosystem I (Mukerji, I. (1142) 311)

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Enzyme characterization
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Enzyme conformation
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Enzyme deficiency
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Platelet; 12-Lipoxygenase; Polymerase chain reaction; Enzyme deficiency; Myeloproliferative disorder (Matsuda, S. (1180) 243)

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Enzyme inactivation
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Cytochrome *P*-450; Anti-peptide antibody; Monoclonal antibody; Epitope; Protein structure (Edwards, R.J. (1161) 38)

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Enzyme kinetics
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Acid phosphatase; Kinetics; Bound enzyme; Cell wall; Yeast; (*Y. lipolytica*) (González, F.J. (1162) 17)

Elastase; α_1-Proteinase inhibitor; Peptide bond cleavage; Amino acid sequencing; (*P. aegurinosa*) (Padrines, M. (1163) 61)

Tyrosinase; Tyrosine hydroxylation; Hydroxyl radical; Ferrous ion (Ros, J.R. (1163) 303)

Metabolic pathway; Catalytic efficiency; Evolution; Enzyme function (Pettersson, G. (1164) 1)

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Enzyme phosphorylation
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Epicotyl
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Epidermal cell
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Epidermal growth factor
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EPR, Fe^{3+}
Photosystem II; Non-heme iron; EPR, Fe^{2+} (Deligiannakis, Y. (1140) 163)

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Erythrocyte morphology
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Complex glycosphingolipid; Polyglycosylceramide; Erythrocyte; HPLC; Purification; (Human) (Miller-Podraza, H. (1168) 330)

Diphytanylglycerol diether analog; Phosphatidylglycerophosphate; Phosphatidylglycerophosphate methyl ester; Thin-layer chromatography; NMR; (*H. salinarium*); (*H. cutirubrum*) (Kates, M. (1169) 46)

THP-1 cell; Arachidonic acid; Icosapentaenoic acid; Phosphatidylcholine; (Human monocyte) (Galella, G. (1169) 280)

Glycolipid; Mycobacterium; Glucuronic acid; Antigenic mycobacterial glycolipid; NMR, ^{1}H- (Wolucka, B.A. (1170) 131)

L-FABP
Phospholipid; Cholesterol; Transfection; L cell; Fluorescence (Woodford, J.K. (1145) 257)

Facilitated transport
Transport; β-Alanine; GABA; Taurine; Sodium; Baclofen; (Rat) (Polache, A. (1147) 267)

Factor VII
Variant; Mutation (James, H.L. (1172) 301)

Factor XII
Liver; Estrogen; Fibrinolysis; Promoter (Citarella, F. (1172) 197)

Facultative psychrophile
Lipase; DNA sequence; Antarctic; Cold adaptation (Arpigny, J.L. (1171) 331)

Fallopian tube
Sulfatide; Ganglioside; Cervical epithelium; Uterine endometrium (Takamatsu, K. (1170) 232)

Familial hypercholesterolemia
LDL; LDL receptor; Mutation (Rubinsztein, D.C. (1182) 75)

Family 3A cytochromes *P*-450
Cytochrome *P*-450; Spontaneously hypertensive rat (SHR); Kidney; Corticosterone; 6β-Hydroxycorticosterone (Ghosh, S. (1182) 152)

Fast energy transduction
Energy transduction; Microsecond electric field pulse; Membrane potential (Eynard, N. (1144) 391)

Fasting
Apolipoprotein; Isoform; Insulin deficiency; Diabetic; [^{3}H]Leucine; (Rat) (Callow, M.J. (1168) 271)

Fast sodium ion channel
N-Acylethanolamine lipid; *N*-Acylethanolamine–membrane interaction; (Neuroblastoma C1300 N18) (Gulaya, N.M. (1152) 280)

Fat absorption
Apolipoprotein A-IV; mRNA; Intestinal apo A-IV; Serum triacylglycerol; Triacylglycerol; Fat secretion; (Rat pups) (Sato, M. (1165) 93)

Fat cell
G protein; (Hamster) (Dieudonne, M.-N. (1176) 123)

Fat deficiency
Cardiolipin; Fatty acid; Isomer; Linoleic acid; Linolenic acid; Positional distribution; (Rat) (Wolff, R.L. (1168) 285)

Fat secretion
Apolipoprotein A-IV; mRNA; Intestinal apo A-IV; Serum triacylglycerol; Triacylglycerol; Fat absorption; (Rat pups) (Sato, M. (1165) 93)

Fatty acid
Heat stability; Electron transport; Glycinebetaine; Thylakoid membrane; (*Synechocystis* PCC6803) (Mamedov, M. (1142) 1)

Phospholipid; Skeletal muscle; Myotube; Sodium ion current; Muscle membrane (Brinkmeier, H. (1145) 8)

Arachidonic acid; Cholesterol; Diabetes mellitus; Glycerol permeability; Phospholipid; Renal cortical membrane; Brush-border membrane; Basolateral membrane; DPH; Fluorescence polarization (Ramsammy, L.S. (1146) 1)

Muscle; Myotonia; ADR; Sarcolemma; Sarcoplasmic reticulum (Birkle, D.L. (1146) 236)

Icosatrienoic acid, -5(*Z*),11(*Z*),14(*Z*); Icosatetraenoic acid, -5(*Z*),11(*Z*),14(*Z*),17(*Z*); Δ^6-Desaturation; (*Mortierella alpina*) (Jareonkitmongkol, S. (1167) 137)

Mycolic acid biosynthesis; (*M. smegmatis*) (Wheeler, P.R. (1167) 182)

ω-Hydroxylase; Arachidonic acid; Omega hydroxylation; Cytochrome *P*-450; Kidney microsome; (Rabbit) (Sawamura, A. (1168) 30)

Cardiolipin; Fat deficiency; Isomer; Linoleic acid; Linolenic acid; Positional distribution; (Rat) (Wolff, R.L. (1168) 285)

Lipid; Phenytoin; Dilantin; Skeletal muscle disorder; Triacylglycerol (Fletcher, J.E. (1168) 292)

Cholesterol; Polyunsaturated fatty acid; Nutrient transport; Intestinal morphology; Infant feeding (Thomson, A.B.R. (1170) 80)

Cytochrome *P*-450; *CYP*4AII; Arachidonic acid; ω-Hydroxylase; (Human kidney) (Palmer, C.N.A. (1172) 161)

Beta oxidation; Citric acid cycle; Ketogenesis; (Rat hepatocyte) (Henly, D.C. (1175) 269)

Multidrug resistance; Amphiphile; Drug efflux; Membrane biophysical property (Callaghan, R. (1175) 277)

Phospholipid; Adrenoceptor; Epinephrine; Hydrocortisone; (Heart muscle); (Rat) (Skúladóttir, G.V. (1178) 49)

Arachidonic acid; Conformational analysis; Computer simulation; Molecular dynamics simulation (Rich, M.R. (1178) 87)

Interleukin 1; Monocyte; (U937 cell); (Human) (Baldie, G. (1179) 125)

Ischemia; NADH-fluorescence; Oxygen radical; (Rat heart) (Hulsmann, W.C. (1181) 273)

(*n* – 3) Fatty acid
(*n* – 6) Fatty acid; Aging; Deformability; Fish oil; Safflower oil; (Erythrocyte) (Mills, D.E. (1149) 313)

Leukotriene; Icosanoid; Granulocyte; Fish oil; Cytochrome *P*-450 (Von Schacky, C. (1166) 20)

Arachidonic acid; Linoleic acid; Icosanoid; Icosapentaenoic acid; Highly unsaturated fatty acid; Plasma phospholipid; Dietary fat (Lands, W.E.M. (1180) 147)

(*n* – 6) Fatty acid
(*n* – 3) Fatty acid; Aging; Deformability; Fish oil; Safflower oil; (Erythrocyte) (Mills, D.E. (1149) 313)

Fatty acid-binding
Protein–lipid interaction; Lipid transfer protein; (Rape seed) (Østergaard, J. (1170) 109)

Fatty acid binding protein
Protein conformation; Liver; (Rat) (Muga, A. (1162) 291)

Brown adipose tissue; Arachidonic acid; Amino acid sequence; (Rat) (Dutta-Roy, A.K. (1169) 73)

Peroxisome proliferator; Hepatocyte; Acyl-CoA binding protein (Vanden Heuvel, J.P. (1177) 183)

Fatty acid β-oxidation
Inborn error; GC-MS; Long-chain acyl-CoA dehydrogenase (Niezen-Koning, K.E. (1180) 28)

Fatty acid composition
Plasmalogen; Phospholipid; Phospholipid composition; N1E-115; Differentiation (Murphy, E.J. (1167) 131)

Fatty acid content
High fat diet; Peroxisome; Mitochondrion; β-Oxidation; Liver; Heart; (Rat) (Vamecq, J. (1170) 151)

Fatty acid desaturation
Micro-alga; Monogalactosyldiacylglycerol; Octadecatetraenoate; (*I. galbana*) (Stern, N. (1167) 248)

Fatty acid metabolism
Cardiac; Triacylglycerol; Lipolysis; NMR, ^{1}H- (Madden, M.C. (1169) 176)

Fatty acid metabolite
Epidermal growth factor; Proto-oncogene; DNA synthesis; c-*myc* expression; Mitogenic response; (SHE cell) (Cowlen, M.S. (1174) 234)

Fatty acid oxidation
3-Thia fatty acid; Peroxisome proliferator; Hypolipidemia; (Rat Liver) (Asiedu, D.K. (1166) 73)

Membrane, outer; Ketogenesis; Mitochondrion; Carnitine palmitoyltransferase; 3-Hydroxy-3-methylglutaryl-coenzyme A synthase; (Mammalian liver) (Guzmán, M. (1167) 227)

Fatty acid sensor
Doxorubicin; *N*-Hydroxysuccinimide ester; Serum albumin; Surface pH (Demant, E.J.F. (1156) 151)

Fatty acid synthase
Lipid metabolism; Lipoprotein lipase; Hormone-sensitive lipase; Gene expression; Cancer (Thompson, M.P. (1180) 236)

Fatty acid synthase, type II
Chloroplast; Fatty acid synthesis; Catalytic step; (*E. gracilis*) (Worsham, L.M.S. (1170) 62)

Fatty acid synthesis
Chloroplast; Fatty acid synthase, type II; Catalytic step; (*E. gracilis*) (Worsham, L.M.S. (1170) 62)

Fatty acyl-CoA oxidase
Peroxisome; Photoreactive derivative; Photoaffinity labeling; (*C. tropicalis*) (Mangroo, D. (1168) 280)

FBAL, bile acid conjugate
5-Fluoro-2′-deoxyuridine, FUdR; Lipophilic derivative; (Rat liposome) (Waalkes, M.B. (1176) 43)

F9 cell
Thrombomodulin; Nucleic acid sequence; Gene structure; Promoter region; (Mouse) (Niforas, P. (1173) 179)

Fc receptor
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Fe(III) catalysis
Cobalt(II); Cobalt(III); EDTA; Hydroxyl radical (Eberhardt, M.K. (1157) 102)

Felodipine
LDL; Acetylated LDL; Macrophage; Liver cell; Calcium ion antagonist (Gustafson, S. (1181) 45)

Femtosecond spectroscopy
Phycocyanin; Excitation energy transfer; Anisotropy; Photosynthesis (Gillbro, T. (1140) 321)

Reaction center; Fluorescence; Photosynthesis; (*Rb. sphaeroides*); (*C. aurantiacus*) (Hamm, P. (1142) 99)

Reaction center; Time resolved spectroscopy; Antenna deficient mutant; (*Rb. capsulatus*) (Schmidt, S. (1144) 385)

Fenofibrate
Ubiquinone; 3-Hydroxy-3-methylglutaryl-coenzyme A reductase; Lovastatin; Cardiomyopathy; (Syrian Hamster) (Bélichard, P. (1169) 98)

Fenvalerate
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Fermentation
Pyruvate oxidation; Iron-sulfur cluster; Hyperthermophile; (*P. furiosus*) (Blamey, J.M. (1161) 19)

Ferredoxin
Photosystem I; Reaction center complex; Subunit; *psaE* gene product; (*S. elongatus*) (Sonoike, K. (1141) 52)

Cytochrome; Heme *c*; Bean sprout (Hirasawa, M. (1141) 253)

fdxN gene; Gene sequence; (*R. rubrum*) (Von Sternberg, R. (1144) 435)

Electron transfer; Nitrogenase; Cyanobacterium; (*A. variabilis*) (Yakunin, A.F. (1163) 124)

Iron-sulfur protein; Nucleotide sequence; (*C. pasteurianum*) (Meyer, J. (1174) 108)

Ferredoxin binding
Nitrite reductase; Complex formation; Lysine modification; Arginine modification (Hirasawa, M. (1140) 304)

Glutamate synthase; Arginine modification; Lysine modification (Hirasawa, M. (1144) 85)

Ferredoxin II
Electron exchange; Intramolecular electron exchange; (*D. desulfuricans* Norway) (Blanchard, L. (1144) 125)

Ferriprotoporphyrin IX
Malaria; Chloroquine resistance; β-Hematin (Orjih, A.U. (1157) 270)

Ferritin
Chemiluminescence; Light emission; Rat liver microsome; Oxygen radical; Paraquat (Puntarulo, S. (1157) 1)

Plant ferritin; Iron-core; Iron storage; Phosphorus storage; (pea seed) (Wade, V.J. (1161) 91)

recombinant DNA; Amino acid sequence; (Horse) (Takeda, S. (1174) 218)

Ferrochelatase
Erythropoiesis; Splicing; Exon skipping (Wang, X. (1181) 198)

Ferroquinone complex
Photosystem II; Electron transfer; EPR; Q_A; Q_B; Cyanide binding (Koulougliotis, D. (1141) 275)

Ferrous hemoglobin derivative
Inositol hexakisphosphate; Ligand binding; Kinetics; Thermodynamics; Tertiary conformational alteration (Coletta, M. (1162) 309)

Ferrous ion
Tyrosinase; Tyrosine hydroxylation; Hydroxyl radical; Enzyme kinetics (Ros, J.R. (1163) 303)

Fetal lung
Fibroblast pneumonocyte factor; Transforming growth factor β; Surfactant; Cell-cell communication (Nielsen, H.C. (1175) 95)

Fetal membrane
Cytokine; Preterm labor; Prostaglandin; Interleukin 1 receptor (Bry, K. (1181) 31)

α-Fetoprotein
Albumin; Receptor; Lymphoid cell; Membrane protein; Glycoprotein; Albumin binding protein (Torres, J.-M. (1159) 60)

α-Fetoprotein (AFP)
Monoclonal antibody; HuH-7; Immune complex; (Nude mouse) (Masuda, K. (1182) 128)

F_0F_1
Chloroplast; ATP hydrolysis; ATPase, H^+-; Binding site (Labahn, A. (1141) 288)

FGF receptor-1
Gene expression; Isoform; (Rat) (Yazaki, N. (1172) 37)

bFGF
Basic fibroblast growth factor; Heparitin sulfate proteoglycan; Myocardium; Plasma membrane (Ross, C.R. (1145) 219)

Fiberoptic sensor
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Fibril-associated protein
Collagen XII; Extracellular matrix; Differential splicing (Trueb, J. (1171) 97)

Fibrin
Plasminogen activation; α_2-Antiplasmin; Histidine-rich glycoprotein; Fibrinolysis; Serine proteinase (Angles-Cano, E. (1156) 34)

Fibrinogen
Collagen; Collagenase; Collagen-related synthetic peptide; Thrombin; Synthetic peptide (Maruyama, S. (1164) 215)

Fibrinogenase
Glycoprotein Ib; Signal Transduction (Huang, T.-F. (1158) 293)

Fibrinolysis; Fibrinogenolysis; Snake venom (Huang, T.-F. (1160) 262)

Fibrinogenolysis
Fibrinogenase; Fibrinolysis; Snake venom (Huang, T.-F. (1160) 262)

Fibrinolysis
Plasminogen activation; α_2-Antiplasmin; Histidine-rich glycoprotein; Fibrin; Serine proteinase (Angles-Cano, E. (1156) 34)

Fibrinogenase; Fibrinogenolysis; Snake venom (Huang, T.-F. (1160) 262)

Factor XII; Liver; Estrogen; Promoter (Citarella, F. (1172) 197)

Rheumatoid arthritis; Streptokinase; Fibronectin; Autoimmunity (Gonzalez-Gronow, M. (1180) 283)

Fibroblast
Ether glycerophospholipid; Translocation; Plasmalogen-deficient fibroblast (Van der Veer, E. (1146) 294)

Acetylcholinesterase; Cell culture; Chick embryo; Myogenesis; Plasma membrane; Skeletal muscle (Elson, H.F. (1156) 78)

Halofuginone; Collagen; Chondrocyte (Granot, I. (1156) 107)

Inflammation; Enzyme kinetics; Extracellular matrix; Recombinant enzyme (Mitchell, T.I. (1156) 245)

Tropomyosin; Caldesmon; Cooperativity; Amino-terminal-deleted tropomyosin; Smooth muscle (Novy, R.E. (1162) 255)

Glycosphingolipid; β-Glucosidase activity; Gaucher disease; (Human) (Agmon, V. (1170) 72)

Osteogenic growth peptide; Growth factor; Histone H4; Osteoblast; Binding protein (Greenberg, Z. (1178) 273)

Platelet-derived growth factor; Arachidonic acid release; Protein kinase C; Free calcium ion (Chow, S.C. (1179) 81)

Heparin; Collagen; Cell proliferation (Ferrao, A.V. (1180) 225)

Secreted protein; Aging; Interferon γ (Eleftheriou, C.S. (1180) 304)

Mitochondrial fatty acid oxidation; Inborn error; Mitochondrial very long chain acyl-CoA dehydrogenase (Bertrand, C. (1180) 327)

Hepatocyte; Chick IL-6; Regulation; Fibronectin (Samad, F. (1181) 207)

Fibroblast pneumonocyte factor
Transforming growth factor β; Surfactant; Fetal lung; Cell-cell communication (Nielsen, H.C. (1175) 95)

Fibromodulin gene
Amino acid sequence; Gene structure; cDNA; (Human) (Antonsson, P. (1174) 204)

Fibronectin
Integrin; Hemopoietic progenitor cell; Cytoadhesion; Bone marrow; Interleukin 3 (Minguell, J.J. (1151) 120)

Cellular senescence; Endothelial cell; Alternative splicing; (Human) (Pagani, F. (1173) 172)

Fibrinolysis; Rheumatoid arthritis; Streptokinase; Autoimmunity (Gonzalez-Gronow, M. (1180) 283)

Interferon γ; Orbital fibroblast; Collagen; Cytokine (Higgins, P.J. (1181) 23)

Hepatocyte; Chick IL-6; Regulation; Fibroblast (Samad, F. (1181) 207)

Cartilage; Fragment; Proteinase; Chondrolysis; Proteoglycan (Xie, D.-l. (1182) 189)

Fibronectin, ED-A positive
Acute liver damage; Liver fibrosis; Carbon tetrachloride model; In situ hybridization; mRNA (Odenthal, M. (1181) 266)

Field cage
Single cell manipulation; Force calculation; Dielectrophoresis; Electrorotation; Microstructure; Multi-electrode design (Schnelle, T. (1157) 127)

Filamentous bacteriophage
Gene 5 protein; Single-stranded DNA binding protein (Turner, G.P. (1173) 201)

Filamin
Calpain; Calpastatin; Myoblast fusion (Kwak, K.B. (1175) 243)

Filtration
Drug carrier; Microsphere; Spleen macrophage; Kupffer cell; Spleen; Liver (Moghimi, S.M. (1157) 233)

Firefly
Luciferase; Bioluminescence; Luciferin; Coenzyme A; Overexpression vector (Devine, J.H. (1173) 121)

Fish oil
$(n-3)$ Fatty acid; $(n-6)$ Fatty acid; Aging; Deformability; Safflower oil; (Erythrocyte) (Mills, D.E. (1149) 313)

$(n-3)$ Fatty acid; Leukotriene; Icosanoid; Granulocyte; Cytochrome *P*-450 (Von Schacky, C. (1166) 20)

Insulin; Diabetes; Streptozotocin; Triacylglycerol; Cholesterol; Glucose; Glucose-6-phosphate dehydrogenase; (Rat) (Baltzell, J.K. (1167) 197)

Fission yeast
Diadenosine tetraphosphate; Ap_4A; Diadenosine tetraphosphate hydrolase; (*S. pombe*) (Robinson, A.K. (1161) 139)

Flagellum
Proton conductance; Photosynthetic bacterium; Motility; (*Rb. sphaeroides*) (Brown, S. (1141) 309)

5′ Flanking and exon sequence
ATPase, Na^+/K^+-; $\beta 1$ subunit; (Chicken) (Takeyasu, K. (1172) 212)

5′ Flanking (promoter) region
P-glycoprotein; Multidrug resistance; Negative element (Zastawny, R.L. (1173) 303)

5′ Flanking sequence
Preprotachykinin gene; Putative transcription factor binding site; (Rat) (Chapman, K. (1172) 361)

Flash photolysis
Pharaonis phoborhodopsin; Photocycle; Haloalkaliphilic; (*N. pharaonis*) (Miyazaki, M. (1140) 22)

Flavin
Cellobiose oxidase; Hydrogen peroxide; Heme; Lignocellulose; Oxidoreductase; (*P. chrysosporium*) (Henriksson, G. (1144) 184)

Flavin-containing monooxygenase
N,*N*-Dimethylaniline *N*-oxidase; Immunoblot; Western transfer; Sex; Age; Trimethylamine (Schlenk, D. (1156) 103)

Human liver; Purification; Antibody; Amino-terminal sequence; (Primate) (Sadeque, A.J.M. (1162) 127)

Expression; (Rat liver); (Yeast) (Itoh, K. (1173) 165)

Flavin mononucleotide
Luciferase; Bioluminescence; Hydrogen peroxide; Emission spectrum; Peroxidase; Evolution (Watanabe, H. (1141) 297)

Flavodoxin
Enzyme property; Electron transfer; Synthesis regulation; Cyanobacterium; (*A. sphaerica*) (Yakunin, A.F. (1164) 305)

Flavoprotein
NADH dehydrogenase; Coupling site I; FMN; Respiratory chain; (Bovine heart mitochondria) (Sled, V.D. (1143) 199)

Flocculent yeast
Glycoprotein; Cell wall protein; Western blot; (*K. marxianus*) (Fernandes, P.A. (1159) 67)

Flotation coefficient
Synthetic boundary cell; Ultracentrifuge; Lipoprotein; (Human serum) (Okajima, Y. (1169) 103)

Flow chamber
Atherosclerosis; Intercellular adhesion molecule 1; Vascular cell adhesion molecule 1; Myeloperoxidase; Rose Bengal (Jeng, J.-R. (1178) 221)

Flow system
Neurite projection; Neurite retraction; PC12h-R (Kazuno, Y. (1178) 299)

Fluidity
Lipid peroxidation; Transport; Brush-border membrane; (Intestine) (Nalini, S. (1147) 169)

Short chain n-alkanol; Enhancement factor; Fluorescence anisotropy; Fluorescence lifetime; Stratum corneum lipid liposome (Kim, Y.-H. (1148) 139)

Cholesterol; Fluorescence; Generalized polarization; Laurdan; Membrane; (Mammal) (Parasassi, T. (1153) 143)

Microsomal membrane; Δ^5-Desaturase; Phospholipid composition; Arachidonic acid; (Rat liver) (Leikin, A.I. (1165) 189)

Fluorescence
Reaction center; Femtosecond spectroscopy; Photosynthesis; (*Rb. sphaeroides*); (*C. aurantiacus*) (Hamm, P. (1142) 99)

Chlorophyll; Energy transfer; Light harvesting complex I; Photosystem I (Mukerji, I. (1142) 311)

Chloroplast; Photosystem I; PsaE; Electron transport (Weber, N. (1143) 204)

Antenna complex; Bacteriochlorophyll fluorescence; Energy transfer; Picosecond fluorescence decay; Photosynthesis; Reaction center; (*Chloroflexus*); (Green bacterium) (Müller, M.G. (1144) 161)

Glycopeptide; Lipid bilayer; Helix orientation; Lectin; Ion channel (Otoda, K. (1145) 33)

L-FABP; Phospholipid; Cholesterol; Transfection; L cell (Woodford, J.K. (1145) 257)

Membrane; Phospholipid bilayer; Membrane domain (Stillwell, W. (1146) 136)

ATPase, $(Ca^{2+} + Mg^{2+})$-; Resonance energy transfer; Sarcoplasmic reticulum; Covalent modification (Mata, A.M. (1147) 6)

Anthroyl dolichol; Lysosome; Localization; Microscopy (Jiang, L.W. (1147) 205)

Plasma membrane; Microheterogeneity; DPH; TMA-DPH; Frequency domain fluorometry; (Rat liver hepatocyte) (Ferretti, G. (1147) 245)

ATPase, Na^+/K^+-; Electrogenic activity; Proteoliposome; Protein orientation; Ion-exchange chromatography (Ivashchuk-Kienbaum, Y.A. (1148) 321)

Merocyanine; Lipid bilayer; Partition (Langner, M. (1149) 175)

Membrane dynamics; Phosphatidylcholine; Plasmalogen; Arachidonic acid; NMR, ^{1}H- (Chen, X. (1149) 241)

Hemicyanine dye; Membrane potential; Neuron membrane; (Leech) (Fromherz, P. (1150) 111)

Cholesterol; Fluidity; Generalized polarization; Laurdan; Membrane; (Mammal) (Parasassi, T. (1153) 143)

Porphyrin; Liposome; Incorporation; Kinetics; Equilibrium (Vever-Bizet, C. (1153) 170)

Multidrug resistance; Membrane; Modulator; Lipid; Micelle (Wadkins, R.M. (1153) 225)

Non-radiative energy transfer; Liposome–polymer interaction; Cytoskeleton; Model membrane; DSC; Quasi-elastic light scattering (Ringsdorf, H. (1153) 335)

Calmodulin; Myosin light-chain kinase; Calcium; Mutagenesis; Protein kinase (Kilhoffer, M.-C. (1160) 8)

Nucleocapsid; Zinc; Zinc binding; Zinc finger structure (Mely, Y. (1161) 6)

myo-Inositol monophosphatase; Secondary structure prediction; Circular dichroism; Raman spectroscopy; Thermostability (Ganzhorn, A.J. (1161) 303)

Lipoprotein; Cholesterol ester (Li, Q.-T. (1166) 145)

Ribosome; Ribosomal subunit; Magnesium ion; Bound ethidium bromide; (*E. coli*) (Bonincontro, A. (1174) 27)

Phenolic compound; Diphenylhexatriene; Platelet; Membrane fluidity; Adenylate cyclase; (Bovine blood) (Kitagawa, S. (1179) 277)

Leukocidin; Calcium; Ethidium; Pore; (*S. aureus*) (Finck-Barbançon, V. (1182) 275)

Fluorescence anisotropy
Short chain n-alkanol; Enhancement factor; Fluidity; Fluorescence lifetime; Stratum corneum lipid liposome (Kim, Y.-H. (1148) 139)

Temperature adaptation; Bilayer order; DPH; *trans*-Parinaric acid; Time-resolved fluorescence; (Vertebrate brain membrane) (Behan-Martin, M.K. (1151) 216)

Vasodilatory drug; Liposomal membrane; Stabilizing effect (Ghosh, A.K. (1153) 20)

Myosin subfragment 1; Tryptophan phosphorescence; Transient electric birefringence; Structural dynamics (Papp, S. (1159) 267)

LDL; Sulfated glycosaminoglycan; Dermatan sulfate; Chondroitin sulfate; Heparin (Gigli, M. (1167) 211)

Fluorescence anisotropy, steady-state
Phosphatidylethanolamine; Phase transition; Crosslinking; Interdigitated lipid phase; Parinaric acid (Harrison, M.M. (1149) 292)

Fluorescence band
Saturated phosphatidylcholine; Phosphatidylcholine; Cholesterol; Lipid bilayer; Gel state; Merocyanine 540; Visible absorption spectrum; Surface property (Bernik, D.L. (1146) 169)

Fluorescence decay
Global analysis; Target analysis; Picosecond fluorescence; Thermodynamics; Phytochrome; Phototransformation (Holzwarth, A.R. (1140) 59)

Fluorescence dequenching
HIV-1; Membrane fusion; Liposome (Larsen, C.E. (1147) 223)

Fluorescence imaging
Photomovement; Photoreception; Time-gated imaging; (*B. japonicum*) (Cubeddu, R. (1143) 327)

Cystic fibrosis transmembrane conductance regulator (CFTR); Chloride ion permeability; Cystic fibrosis; 6-Methoxy-1-(3-sulfonatopropyl)quinolinium (SPQ); L cell (Dho, S. (1152) 83)

Fluorescence induction
Photosystem II; Chlorophyll fluorescence; Photosystem II heterogeneity; Plastoquinone (Hsu, B.-D. (1140) 30)

Photosystem I; Photosystem II; Chlorophyll *a*/*b*; Chlorophyll *a*/*b* antenna; Photosynthesis regulation (Post, A.F. (1144) 374)

Fluorescence lifetime
Short chain n-alkanol; Enhancement factor; Fluidity; Fluorescence anisotropy; Stratum corneum lipid liposome (Kim, Y.-H. (1148) 139)

Potential-sensitive styryl dye; Styryl dye; Lipid vesicle; Binding affinity; Temperature jump; Phase transition; Quantum yield (Zouni, A. (1153) 203)

Fluorescence line narrowing
Protein denaturation; Guanidine hydrochloride; Cytochrome *c*; Inhomogeneous broadening; Energy selection (Logovinsky, V. (1161) 149)

Fluorescence microscopy
Skeletal muscle; Saponin-skinned fiber; Oxidative phosphorylation; Mitochondrial myopathy; Mitochondrial encephalomyopathy; (Human) (Kunz, W.S. (1144) 46)

Fluorescence quenching; Lipopeptide; Peptide synthesis; Vesicle; EPR (Metzger, J.W. (1149) 29)

Fluorescence photobleaching recovery
B lymphocyte; (Mouse) (Printen, J.A. (1148) 91)

Fluorescence polarization
Arachidonic acid; Cholesterol; Diabetes mellitus; Fatty acid; Glycerol permeability; Phospholipid; Renal cortical membrane; Brush-border membrane; Basolateral membrane; DPH (Ramsammy, L.S. (1146) 1)

Fenvalerate; Insecticide; DSC; Membrane fluidity (Sarkar, S.N. (1147) 137)

Fluorescence property
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Fluorescence quenching
Light harvesting complex; Energy transfer; Picosecond fluorescence; High-energy state (Mullineaux, C.W. (1141) 23)

Photosystem II; Localized proton; Carotenoid de-epoxidation; Uncoupler (Finazzi, G. (1142) 123)

Photosynthesis; Light harvesting complex; Energy quenching; Heat evolution; Optoacoustic spectroscopy (Mullineaux, C.W. (1143) 235)

Lipopeptide; Peptide synthesis; Vesicle; Fluorescence microscopy; EPR (Metzger, J.W. (1149) 29)

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Fluorescent label
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Fluorescent membrane probe
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Fluorescent phospholipid
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Fluorescent probe
ATP synthase; Enzyme kinetics; Proton translocation; pH difference determination; Energy coupling (Fregni, V. (1143) 215)

Biomembrane–steroid interaction; Steroid microcompartmentation; (Rat testis) (Kühn-Velten, W.N. (1145) 185)

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Tamoxifen; Anti-cancer drug; Breast cancer; Membrane–lipid interaction; Membrane fluidity (Custódio, J.B.A. (1150) 123)

HydroxyTamoxifen; Anti-cancer drug; Antiestrogen; Breast cancer; Membrane–lipid interaction; Membrane fluidity (Custódio, J.B.A. (1153) 308)

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Fluoride ion
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Fluoroaluminate
Fluoride ion; Sodium ion efflux; Barnacle fiber (Bittar, E.E. (1152) 307)

5-Fluoro-2′-deoxyuridine
Liposome stability; Prodrug; Cytostatic; Fluoropyrimidine; Freeze-fracture; Electron microscopy; (Colon tumor); (Serum) (Van Borssum Waalkes, M. (1148) 161)

Fluorometry
Reversed micelle; Membrane–melittin interaction; Melittin folding; Frequency domain fluorometry; Lifetime distribution (Bismuto, E. (1146) 213)

Acid phosphatase; Denaturation; Protein folding (Ostrowski, W.S. (1164) 319)

Fluoropyrimidine
Liposome stability; Prodrug; Cytostatic; 5-Fluoro-2′-deoxyuridine; Freeze-fracture; Electron microscopy; (Colon tumor); (Serum) (Van Borssum Waalkes, M. (1148) 161)

5-Fluoro-2-thiocytosine
2-Thiocytosine; Tautomerism; Matrix isolation; Infrared spectrum; Ab initio calculation (Rostkowska, H. (1172) 239)

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Fluvastatin sodium (XU62-320)
HMG-CoA reductase inhibitor; LDL receptor; HepG2 cell (Hayashi, K. (1167) 223)

FMN
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Folate homeostasis
γ-Glutamyl hydrolase; Conjugase; Polyglutamate; Protein secretion (Wang, Y. (1164) 227)

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FTIR; Crystallin; Curve fitting; Secondary structure; Polypeptide conformation; (Lens) (Lamba, O.P. (1163) 113)

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Fractional catabolic rate
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Fragmentation
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FRAP
Membrane fluidity; Saponin; Intracellular calcium ion; Calcium ion, intracellular (Ishida, H. (1145) 58)

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Free energy
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Protein stability; Nuclease; Denaturation; Component analysis; Molecular dynamics; (*S. aureus*) (Yamaotsu, N. (1163) 81)

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Etofibrate; Triacylglycerol; Glycerol; Cholesterol metabolism; HMG-CoA reductase; (Rat) (Bocos, C. (1168) 340)

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Liposome stability; Prodrug; Cytostatic; 5-Fluoro-2′-deoxyuridine; Fluoropyrimidine; Electron microscopy; (Colon tumor); (Serum) (Van Borssum Waalkes, M. (1148) 161)

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Frequency domain fluorometry
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Frog liver glycolysis
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Fructose 2,6-bisphosphate
PP_i : fructose-6-phosphate 1-phosphotransferase; Biosynthesis; Carbohydrate metabolism; Differentiation; (*V. mungo*); (*V. radiata*) (Ashihara, H. (1156) 123)

Anuran freeze tolerance; Regulation of phosphofructokinase; Frog liver glycolysis (Vazquez Illanes, M.D. (1158) 29)

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cis-9,*cis*-15-Octadecadienoic acid; Butylene-interrupted dienoic fatty acid; Higher plant; (Mango) (Shibahara, A. (1170) 245)

FTIR
Photosystem II; Primary quinone acceptor; Q_A; Plastoquinone-9; Reconstitution (Araga, C. (1142) 36)

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Apolipoprotein A-IV; HDL; Reconstituted HDL; Amphipathic helix; Infrared spectroscopy (Lins, L. (1149) 267)

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Crystallin; Fourier self-deconvolution; Curve fitting; Secondary structure; Polypeptide conformation; (Lens) (Lamba, O.P. (1163) 113)

Protein structure; Acyl carrier protein; Secondary structure; Protein solution structure (Ernst-Fonberg, M.L. (1164) 273)

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α-L-Fucosidase
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Fucosidosis
α-L-Fucosidase; Lysosomal storage disease; Pedigree analysis; Point mutation; DNA sequencing (Yang, M. (1182) 245)

Fucosyltransferase
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5-Fluoro-2′-deoxyuridine, FUdR
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Fungal biosynthesis
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Furan biosynthesis of fatty acid
Furan fatty acid; (*n*–4)Hexadecadienoic acid; Lipoxygenase; Alga; (*Isochrysis* sp.); (*P. tricornutum*) (Batna, A. (1166) 171)

Furan fatty acid
Furan biosynthesis of fatty acid; (*n*–4)Hexadecadienoic acid; Lipoxygenase; Alga; (*Isochrysis* sp.); (*P. tricornutum*) (Batna, A. (1166) 171)

Furin
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Fusion
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Fusion peptide
HIV; Lipid mixing; FTIR (Martin, I. (1145) 124)

Fusion protein
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GABA
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Galactocerebrosidase
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Galactose
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Galactose receptor
γ-Glutamyltransferase; Clearance; Receptor mediated uptake (Huseby, N.-E. (1156) 283)

β-D-Galactosidase
Chromogenic substrate; (*E. coli*); (*A. niger*); (Bovine); (Jack bean) (Pócsi, I. (1163) 54)

Galactosylceramide
Glycosphingolipid; Annelid; Phosphocholine; Recycling HPLC; (*Neanthes diversicolor*) (Noda, N. (1169) 30)

Galactosyltransferase
α-Lactalbumin; Lysozyme; Amino acid sequence; Monotreme; Post-translational modification (Shaw, D.C. (1161) 177)

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Galactosyltransferase, B1-4
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Galanin
Adrenaline; Membrane potential; Insulin release; (Pancreatic B-cell) (Drews, G. (1175) 214)

Ganglioglycolipid
Glycosphingolipid; B-active lipid; Glioma; (Rat) (Suetake, K. (1170) 25)

Ganglion cell
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Ganglioside
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Neurotoxin; Toxin binding; Protein acceptor; Solubilization; Synaptic membrane; (*C. botulinum*) (Nishiki, T.-i. (1158) 333)

Sphingomyelinase; Copper; Sphingomyelin; Phosphatidylserine; GM3; (Rat) (Lister, M.D. (1165) 314)

HIV; HTLV-I; Glycosphingolipid (Matsuda, K. (1168) 123)

Sulfatide; Cervical epithelium; Uterine endometrium; Fallopian tube (Takamatsu, K. (1170) 232)

Ganglioside biosynthesis; Ganglioside shedding; Ceramide; Murine lymphoma cell (Li, R. (1170) 283)

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Ganglioside biosynthesis
Ganglioside; Ganglioside shedding; Ceramide; Murine lymphoma cell (Li, R. (1170) 283)

Ganglioside GM1
Amide band; Phosphatidylcholine; FTIR (Mueller, E. (1146) 45)

Liposome; Thermosensitive liposome; Long-circulating liposome; Drug delivery system; Hyperthermia; Doxorubicin; Colon 26 carcinoma (Maruyama, K. (1149) 209)

Liposome; Biodistribution; Neoglycolipid (Park, Y.S. (1166) 105)

Liposome; Reticuloendothelial system; Doxorubicin (Parr, M.J. (1168) 249)

Ganglioside shedding
Ganglioside; Ganglioside biosynthesis; Ceramide; Murine lymphoma cell (Li, R. (1170) 283)

Gas chromatography / mass spectrometry
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Gastric acid secretion
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Gastric lipase
Human gastric lipase; Monoclonal antibody; Immunoaffinity chromatography; ELISA; Duodenum; Enzyme purification (Aoubala, M. (1169) 183)

Gastric mucosa
Membrane potential; Voltage clamp technique; Thiocyanate ion; Cimetidine; SCH 28080; (*R. pipiens*) (Carrasquer, G. (1149) 195)

Gastrin
Lipopeptide; Cholecystokinin; Peptide conformation; Lipid bilayer; Lipid transfer; Calcium affinity (Romano, R. (1151) 111)

Gastrin-binding protein
Enoyl-CoA hydratase; 3-Hydroxyacyl-CoA dehydrogenase; Trifunctional enzyme; Nucleotide sequence (Mantamadiotis, T. (1170) 211)

Gastrin derivative
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Gastrin-releasing peptide
Bombesin; Somatostatin; Hormone; Receptor (Fanger, B.O. (1179) 300)

Gaucher
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Gaucher disease
Glycosphingolipid; β-Glucosidase activity; Fibroblast; (Human) (Agmon, V. (1170) 72)

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Neutral glycosphingolipid; NMR, ^{1}H-; FABMS; Glycosphingolipid; (*A. juliana*) (Yamaguchi, Y. (1165) 110)

Phosphatidylcholine; Polyunsaturated fatty acid; Lipid peroxidation; PAF (Tanaka, T. (1166) 264)

Polyunsaturated fatty acid; Lipid peroxidation; Dicarboxylic acid (Passi, S. (1168) 190)

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Gelatinase activity
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Gelatinase B
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Gel chromatography
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Gel filtration
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Gel-fluid partitioning
Partition coefficient; Fluorescence quenching; Hydrophobic mismatch; Gramicidin A′ (Dibble, A.R.G. (1153) 155)

Gel state
Saturated phosphatidylcholine; Phosphatidylcholine; Cholesterol; Lipid bilayer; Merocyanine 540; Visible absorption spectrum; Fluorescence band; Surface property (Bernik, D.L. (1146) 169)

Gemfibrozil
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Gender-related expression
Glutathione; Glutathione *S*-transferase; Isozyme; (Human colon) (Singhal, S.S. (1171) 19)

Gene activation
Spermatogenesis; mRNA; Heat shock cognate protein; (Mouse) (Matsumoto, M. (1174) 274)

Gene assignment
Alpha-1 acid glycoprotein; Lipocalin; Sequence homology; Gene sequence; (Rodent) (Chan, P. (1174) 195)

Gene characterization
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Ti plasmid; Nopaline catabolism; (*Agrobacterium tumefaciens*) (Schrell, A. (1174) 303)

Gene cloning
Protein purification; Amino acid sequence; Serine proteinase; Substrate specificity; (*S. fradiae*) (Kitadokoro, K. (1163) 149)

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Gene complementation
ATPase, F_1-; Mutant strain; Mutant strain complementation; Gene expression; (*E. coli*); (*Synechocystis* sp. PCC 6803) (Lill, H. (1144) 278)

Gene disruption
Adenylate kinase homolog; (Yeast) (Konrad, M. (1172) 12)

Gene dosage
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Gene expression
ATPase, F_1-; Mutant strain; Gene complementation; Mutant strain complementation; (*E. coli*); (*Synechocystis* sp. PCC 6803) (Lill, H. (1144) 278)

Enterocyte; mRNA; Sodium ion/glucose transporter; Posttranscriptional regulation; Hybridization, in situ; (Ovine) (Freeman, T.C. (1146) 203)

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Arachidonic acid; Stearoyl-CoA desaturase; Lymphocyte (Tebbey, P.W. (1171) 27)

FGF receptor-1; Isoform; (Rat) (Yazaki, N. (1172) 37)

Pancreatitis-associated protein; cDNA; (Human); (Mouse) (Itoh, T. (1172) 184)

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Glutathione peroxidase; Tissue specificity; Transcription; Selenoenzyme; (Guinea pig) (Himeno, S. (1173) 283)

Chloride channel; Oocyte expression; A7r5; (*Xenopus*); (Rat) (Abe, T. (1173) 353)

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Protein kinase C-δ; Protein kinase C group; Phorbol ester; Cloning; (Human) (Aris, J.P. (1174) 171)

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Formyl peptide receptor; Ligand binding; (Neutrophil); (Human) (Lala, A. (1178) 302)

Lipid metabolism; Lipoprotein lipase; Fatty acid synthase; Hormone-sensitive lipase; Cancer (Thompson, M.P. (1180) 236)

Plasmingen activator; Plasminogen activator inhibitor; Connective tissue; Substance P (Murphy, P.G. (1182) 205)

Gene expression, immediate early
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Gene induction
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Gene regulation
Calmodulin; Cancer; Promoter (Koller, M. (1163) 1)

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Alpha-1 acid glycoprotein; Serum amyloid A; Heavy metal (Yiangou, M. (1174) 123)

Heat-shock protein; HSP70; Stress; (*Tetrahymena*) (Amaral, M.D. (1174) 133)

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Alpha-1 acid glycoprotein; Gene assignment; Lipocalin; Sequence homology; (Rodent) (Chan, P. (1174) 195)

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Xenobiotic; Membrane active compound; Boundary lipid; Kinetics; Multiple binding site kinetics (Sandermann, Jr., H. (1150) 130)

Generalized polarization
Cholesterol; Fluidity; Fluorescence; Laurdan; Membrane; (Mammal) (Parasassi, T. (1153) 143)

Gene transcription
Transcription control; cyclic AMP-responsive element-binding protein; CREB; DNA binding (Lee, K.A.W. (1174) 221)

Gene transfer
TPA; Protein kinase C (Reston, J.T. (1177) 49)

Gene transfer, in vivo
Liposome; Hemagglutinating virus of Japan (HVJ); Hepatitis B virus; Cytotoxicity; T lymphocyte (Kato, K. (1182) 283)

Genetic code, nonuniversal
Fungal lipase; Yeast; Enzyme structure; Model-building; (*C. cylindracea*) (Longhi, S. (1165) 129)

Genetic compound
Hexosaminidase; Sandhoff disease; Amino acid substitution (Bolhuis, P.A. (1182) 142)

Genetic map
Recombinant DNA; Restriction fragment length polymorphism; Eye disorder; X-linked (Shastry, B.S. (1182) 119)

Genetic polymorphism
Apolipoprotein A-IV; DNA; Japanese population; PCR (Bai, H. (1174) 279)

Genetic recombination
DNA binding protein; Topoisomerase; DNA enzymology; DNA–protein interaction (Myers, R. (1174) 31)

Genetics
Cytochrome b_5; Expression; Distribution (Giordano, S.J. (1172) 95)

Genital tract
Neutral glycosphingolipid; Ceramide; Phytosphingosine; α-Hydroxy fatty acid; Menstrual cycle; (Human female) (Takamatsu, K. (1165) 177)

Genomic gene
Lipoprotein lipase; Adipocyte; Cytokine; Hormone; Transcription; cDNA; Promoter (Enerbäck, S. (1169) 107)

Genomic organization
Calmodulin; DNA sequence; (*N. crassa*) (Melnick, M.B. (1171) 334)

Proteasome gene; Multicatalytic proteinase; Nucleotide sequence; (*Drosophila*) (Seelig, A. (1174) 215)

Genomic sequence
Non-histone protein HMG1; Retropseudogene; Evolution; (Human cell) (Štros, M. (1172) 231)

Gestation
Phospholipase A_2; Subcellular distribution (Farrugia, W. (1166) 77)

G_{M2} gangliosidosis
Argentinean deme; Deme; Hexosaminidase; Lysosomal storage disease (Brown, C.A. (1180) 91)

Gibberellic acid
Epicotyl; *S*-Adenosylmethionine synthetase regulation; Enzyme synthesis, de novo; Isozyme; Molecular hybridization; (Dwarf pea) (Mathur, M. (1162) 283)

Gingiva
Buccal; Ceramide; Epidermis; Lipid; Palate (Chang, F. (1150) 98)

Gliadin
Coeliac disease; Gluten; Lectin (Rühlmann, J. (1181) 249)

Gliadin peptide
Coeliac disease; Toxicity, in vitro; Peptide (Cornell, H.J. (1181) 169)

Glibenclamide
ATP-sensitive potassium channel; Sulfonylurea; Diazoxide (Ashcroft, S.J.H. (1175) 45)

Glioma
Glycosphingolipid; Ganglioglycolipid; B-active lipid; (Rat) (Suetake, K. (1170) 25)

Glioma cell
Phosphatidylserine; Ethanolamine phosphoglyceride; Plasmalogen; Phospholipid metabolism; Base exchange (Xu, Z. (1168) 167)

Gliostatin
Enzyme immunoassay; Platelet-derived endothelial cell growth factor PD-ECGF (Hirano, T. (1176) 299)

Global analysis
Target analysis; Picosecond fluorescence; Fluorescence decay; Thermodynamics; Phytochrome; Phototransformation (Holzwarth, A.R. (1140) 59)

Glomerular function
Thromboxane A_2; TXA_2/PGH_2 receptor; Receptor binding; Nephrotic syndrome; (Kidney) (Mayeux, P.R. (1181) 148)

α-1,4-Glucan
α-1,4-Glucan lyase; 1,5-Anhydrofructose; Starch; Glycogen; Gracilariales (Yu, S. (1156) 313)

α-1,4-Glucan lyase
1,5-Anhydrofructose; α-1,4-Glucan; Starch; Glycogen; Gracilariales (Yu, S. (1156) 313)

Glucocerebrosidase
β-Glucosidase isoenzyme; Lysosome; Gaucher (Van Weely, S. (1181) 55)

Glucocorticoid
Surfactant-associated protein; Transcription; mRNA stability; Lung development (Xu, J. (1169) 146)

Surfactant synthesis; Cholinephosphate cytidylyltransferase; Human fetal lung; cAMP; T_3 (Sharma, A. (1170) 237)

Gene regulation; Insulin (Gadson, Jr., P. (1173) 22)

Glucocorticoid receptor
Dexamethasone; Arachidonic acid; Prostaglandin I_2; Cell culture; Smooth muscle cell (Petrichenko, I. (1166) 183)

Immunoassay; Down-regulation; Receptor down-regulation; Immunospecificity; (AtT-20 cell) (Hendry, III, W.J. (1178) 176)

Glucogenesis
NMR, ^{13}C-; Alanine; Tricarboxylic acid cycle; (*Manduca sexta*) (Thompson, S.N. (1157) 259)

Gluconalactonase
Gluconolactone; Gene sequence; Periplasmic enzyme; (*Z. mobilis*) (Kanagasundaram, V. (1171) 198)

Gluconeogenesis
Respiratory chain; Inhibitor; Diabetes; (Rat liver) (Owen, M.R. (1142) 11)

Ureogenesis; Perfused liver; Ornithine uptake (Martín-Requero, A. (1158) 166)

Differentiation; Insulin; Glucose; Glycolysis; Proximal tubule cell; (Rabbit) (Courjault, F. (1177) 147)

Gluconolactone
Gluconalactonase; Gene sequence; Periplasmic enzyme; (*Z. mobilis*) (Kanagasundaram, V. (1171) 198)

Glucosamine-6-phosphate synthase
Chemical modification; Irreversible modification; (Baker's yeast) (Milewski, S. (1161) 279)

β-*N*-acetyl-*D*-Glucosaminidase
Photodynamic therapy; Lysosome; Porphyrin (Berg, K. (1158) 300)

Glucose
Macrophage; Dexamethasone; Phorbol; 2-Deoxy-D-glucose; Hexokinase (Naftalin, R.J. (1148) 39)

Arachidonic acid; Icosanoid; Reacylation; (Endothelial cell) (Brown, M.L. (1165) 239)

Insulin; Diabetes; Streptozotocin; Fish oil; Triacylglycerol; Cholesterol; Glucose-6-phosphate dehydrogenase; (Rat) (Baltzell, J.K. (1167) 197)

Differentiation; Insulin; Glycolysis; Gluconeogenesis; Proximal tubule cell; (Rabbit) (Courjault, F. (1177) 147)

cyclic AMP; Adenylate cyclase; Catabolite repression; (*A. viscosus*) (Watson, E.L. (1178) 243)

Hexose monophosphate shunt; Oxygen radical; Lipopolysaccharide; Glutathione; (Liver) (Spolarics, Z. (1179) 134)

Glucose, ^{13}C-labeled
NMR, ^{13}C-; Sickle cell erythrocyte; Erythrocyte; Glucose metabolism; Pentose phosphate pathway; (Human) (Schrader, M.C. (1182) 179)

Glucose metabolism
Skeletal muscle; Glycogen; Ethanol; Insulin (Cook, E.B. (1180) 207)

NMR, ^{13}C-; Erythrocyte; Pentose phosphate pathway; (Human) (Schrader, M.C. (1182) 162)

NMR, ^{13}C-; Glucose, ^{13}C-labeled; Sickle cell erythrocyte; Erythrocyte; Pentose phosphate pathway; (Human) (Schrader, M.C. (1182) 179)

Glucose oxidation
Aminopyrine accumulation; cyclic AMP; Histamine; Ranitidine; (Rat) (Li, Z.-Q. (1175) 250)

Glucose-6-phosphatase
Hysteresis; Kinetics; Apparent sigmoid kinetics (Nelson-Rossow, K.L. (1163) 297)

Glucose-6-phosphate dehydrogenase
Renaturation; Guanidine hydrochloride (Plomer, J.J. (1163) 89)

Insulin; Diabetes; Streptozotocin; Fish oil; Triacylglycerol; Cholesterol; Glucose; (Rat) (Baltzell, J.K. (1167) 197)

Glutathione; Catalase; NADPH; Hydrogen peroxide; Oxidation; (Erythrocyte) (Scott, M.D. (1181) 163)

Glucose regulation
Potassium ion transport; Sugar kinase; Neomycin; Phosphatidylinositol; (*S. cerevisiae*) (Alijo, R. (1179) 224)

Glucose repression
Alcohol dehydrogenase; *ADH*; (*Kluyveromyces*) (Ladrière, J.-M. (1173) 99)

Glucose transport
Glucose transporter; Glycosylation; Transforming growth factor-β; TGF-β; (Mouse fibroblast 3T3) (Masumi, A. (1145) 227)

Plasma membrane; ATPase, H^+-; Amiloride; 5-(*N*-Ethyl-*N*-isopropyl)amiloride; (*S. pombe*) (Haworth, R.S. (1145) 266)

Sulfhydryl group; Phenylarsine oxide; Hydrogen peroxide; Insulin; Cardiomyocyte (Fischer, Y. (1153) 97)

Platelet-derived growth factor; Insulin; Mitogen; (Mouse fibroblast) (Merrall, N.W. (1177) 191)

Hypothyroidism; (Rat small intestine) (Khoja, S.M. (1179) 76)

D-Glucose transport
Sodium ion/D-glucose cotransport; Intestinal development; Temperature effect; Brush-border membrane vesicle; Kinetics; (Guinea pig) (Malo, C. (1153) 299)

Glucose transporter
Glucose transport; Glycosylation; Transforming growth factor-β; TGF-β; (Mouse fibroblast 3T3) (Masumi, A. (1145) 227)

D-Glucose; Immobilization; pH; Proteoliposome; Transport retention chromatography; (Human erythrocyte) (Lu, L. (1150) 135)

Glucose utilization
Phospholipase A_2; Phospholipid modification; Glycolysis; Erythrocyte; Lactate production; (Human) (Miwa, I. (1175) 174)

D-Glucose
Glucose transporter; Immobilization; pH; Proteoliposome; Transport retention chromatography; (Human erythrocyte) (Lu, L. (1150) 135)

Pancreatic islet; Parotid cell (Sener, A. (1177) 54)

D-Glucose cotransport
Sodium ion cotransport; (Kidney) (Silverman, M. (1153) 43)

β-Glucosidase
Thermostability; β-Xylosidase; Thermophilic bacterium; (*Thermotoga* sp.) (Ruttersmith, L.D. (1156) 167)

β-Glucosidase activity
Glycosphingolipid; Gaucher disease; Fibroblast; (Human) (Agmon, V. (1170) 72)

β-Glucosidase isoenzyme
Glucocerebrosidase; Lysosome; Gaucher (Van Weely, S. (1181) 55)

α-Glucoside
Sucrose transport; Proton co-transport; Phloem; 4-Hydroxyphenyl β-D-fructofuranoside; (*A. graveolens*) (Griffin, S.D.J. (1152) 61)

Glucosylceramidase
Membrane reconstitution; Lipid binding; Acidic phospholipid; Liposome; Bilayer curvature (Vaccaro, A.M. (1149) 55)

Glucuronic acid
Glycolipid; Mycobacterium; Antigenic mycobacterial glycolipid; FABMS; NMR, ^{1}H- (Wolucka, B.A. (1170) 131)

Glucuronidation
UDP-glucuronosyltransferase; Kinetics; Retinoic acid; Retinoyl β-D-glucuronide; Liposome; Microsome (Salyers, K.L. (1152) 328)

Glutamate synthase
Ferredoxin binding; Arginine modification; Lysine modification (Hirasawa, M. (1144) 85)

Glutamate transport
Kinetics; Curve fitting (Ash, J.F. (1149) 109)

L-Glutamate
Proliferation; Oncogene; Amino acid transport; L-Aspartate; (Fibroblast) (Bussolati, O. (1151) 153)

L-Glutamate receptor
Quisqualate; Ketamine; High pressure; Channel gating; (Locust muscle) (Macdonald, A.G. (1151) 13)

Glutamine
Metabolism; Glycine; (Rat hepatocyte) (Vincent, N. (1175) 13)

Glutamine metabolism
Phosphate-dependent glutaminase; Skeletal muscle mitochondrion; (Rat and human) (Świerczyński, J. (1157) 55)

L-Glutamine
Polyamine; L-Arginine; Ornithine decarboxylase; Isolated enterocyte; (Newborn pig) (Blachier, F. (1175) 21)

γ-Glutamylcysteine
Lens protein; Aging; Mixed disulfide; Cataract; Glutathione (Dickerson, Jr., J.E. (1157) 141)

γ-Glutamyl hydrolase
Conjugase; Polyglutamate; Folate homeostasis; Protein secretion (Wang, Y. (1164) 227)

γ-Glutamyltransferase
Clearance; Receptor mediated uptake; Galactose receptor (Huseby, N.-E. (1156) 283)

Glutathione
Lens protein; Aging; Mixed disulfide; γ-Glutamylcysteine; Cataract (Dickerson, Jr., J.E. (1157) 141)

Urocanic acid; Imidazole compound; Mass spectrometry; Paper electrophoresis; (Human urine) (Kinuta, M. (1157) 192)

Glutathione *S*-transferase; Isozyme; Xenobiotic metabolism; Sex-related difference; (Human skin) (Singhal, S.S. (1163) 266)

Ethacrynic acid; Conjugate; Glutathione *S*-transferase; Enzyme inhibition (Awasthi, S. (1164) 173)

Glutathione *S*-transferase; Isozyme; Gender-related expression; (Human colon) (Singhal, S.S. (1171) 19)

Stored erythrocyte; Immunoglobulin G binding; Anti-band 3; Band 3 oligosaccharide; Oxidative damage; (Erythrocyte) (Ando, K. (1178) 127)

Hexose monophosphate shunt; Oxygen radical; Glucose; Lipopolysaccharide; (Liver) (Spolarics, Z. (1179) 134)

Catalase; NADPH; Hydrogen peroxide; Glucose-6-phosphate dehydrogenase; Oxidation; (Erythrocyte) (Scott, M.D. (1181) 163)

Glutathione [glycyl]ethyl ester
Glyoxalase I; Glutathione [glycyl]methyl ester (Hamilton, D.S. (1159) 203)

Glutathione [glycyl]methyl ester
Glyoxalase I; Glutathione [glycyl]ethyl ester (Hamilton, D.S. (1159) 203)

Glutathione metabolism
Glutathione transport; Red cell GSH; Interorgan metabolism (Dass, P.D. (1156) 99)

Glutathione peroxidase
Glutathione *S*-transferase; Plasma membrane; Canalicular membrane; Sulfhydryl reagent; (Rat); (Liver) (Horbach, M.E. (1148) 61)

Calcium ion pump; ATPase; Inhibition; Red blood cell; *tert*-Butyl hydroperoxide; (Human) (Rohn, T.T. (1153) 67)

Selenium; Selenoprotein; Diet; Antioxidant; (Brain); (Rat) (Buckman, T.D. (1163) 176)

Glutathione *S*-transferase; Oxidative stress; (*H. mrakii*) (Tran, L.-T. (1164) 166)

Tissue specificity; Gene expression; Transcription; Selenoenzyme; (Guinea pig) (Himeno, S. (1173) 283)

Cobalt; Superoxide dismutase; α-Tocopherol (Hatori, N. (1181) 257)

Glutathione reductase
NAD(P)H : quinone reductase; DT-Diaphorase; Antioxidant enzyme; Superoxide dismutase; Catalase; Oxygen toxicity; Lung (Whitney, P.L. (1156) 275)

Glutathione *S*-transferase
Glutathione peroxidase; Plasma membrane; Canalicular membrane; Sulfhydryl reagent; (Rat); (Liver) (Horbach, M.E. (1148) 61)

CuZn superoxide dismutase; Kidney; Mesangial cell; Epithelial cell (Davies, S.J. (1157) 204)

Induction; Subunit; Ethoxyquin; Phenobarbital; 3-Methylcholanthrene (Derbel, M. (1158) 175)

Subunit; Amino acid sequence; (Human) (Ahmad, H. (1161) 333)

Glutathione; Isozyme; Xenobiotic metabolism; Sex-related difference; (Human skin) (Singhal, S.S. (1163) 266)

Glutathione peroxidase; Oxidative stress; (*H. mrakii*) (Tran, L.-T. (1164) 166)

Ethacrynic acid; Glutathione; Conjugate; Enzyme inhibition (Awasthi, S. (1164) 173)

UDP-glucuronosyltransferase; Epoxide hydrolase; Liver; (Rat) (Yang, E.K. (1168) 52)

Glutathione; Isozyme; Gender-related expression; (Human colon) (Singhal, S.S. (1171) 19)

Primary culture; Gene expression; Phenobarbital; 3-Methylcholanthrene; β-Naphthoflavone; (Hepatocyte); (Rat); (Serum-free medium) (Dwivedi, R.S. (1174) 43)

P-glycoprotein; Drug resistance; Cytotoxicity; (Ovary cell); (Chinese hamster) (McClean, S. (1177) 117)

Glyoxalase I; Carcinoma; Tumor marker; Colon; (Human) (Ranganathan, S. (1182) 311)

Glutathione synthetase
cDNA sequence; (*Xenopus laevis*) (Habenicht, A. (1174) 295)

Glutathione transferase
Ascorbic acid; Dehydroascorbic acid reductase; Se-dependent glutathione peroxidase; Catalase; Hydrogen peroxide; (Insect) (Summers, C.B. (1156) 235)

Glutathione transport
Glutathione metabolism; Red cell GSH; Interorgan metabolism (Dass, P.D. (1156) 99)

Gluten
Coeliac disease; Gliadin; Lectin (Rühlmann, J. (1181) 249)

Glutenin
Disulfide; Endoproteinase Lys-C; Wheat (Tao, H.P. (1159) 13)

Glycan phosphatidylinositol-specific phospholipase C
Alkaline phosphatase; Glycan phosphatidylinositol-specific phospholipase D; Aqueous phase system; Partitioning (Raymond, F.D. (1156) 117)

Glycan phosphatidylinositol-specific phospholipase D
Alkaline phosphatase; Glycan phosphatidylinositol-specific phospholipase C; Aqueous phase system; Partitioning (Raymond, F.D. (1156) 117)

Glycation
Non-enzymatic glycosylation; Lens; Crystallin; Aging (Van Boekel, M.A.M. (1159) 99)

Glyceraldehyde-3-phosphate dehydrogenase
Inhibition; Phosphonate; Phosphoglycerate kinase (Li, Y.-K. (1164) 17)

Koningic acid; Isozyme; Cloning; Nucleotide sequencing; (*T. koningii*) (Watanabe, H. (1172) 43)

D-Glyceraldehyde-3-phosphate dehydrogenase
Maltotetraose-forming amylase; Asynchronous unfolding; Denaturation; Maltotetraose; (*Alcaligenes*) (He, R.-Q. (1163) 315)

Glycerol
Etofibrate; Triacylglycerol; Free fatty acid; Cholesterol metabolism; HMG-CoA reductase; (Rat) (Bocos, C. (1168) 340)

Glycerolipid biosynthesis
Diabetes; Diacylglycerol; Acyltransferase; Essential fatty acid; Lipolysis (Mostafa, N. (1169) 189)

Glycerolipid metabolism
Phosphatidylcholine; Arachidonic acid; Clofibric acid; Kidney; (Rat) (Kawashima, Y. (1169) 202)

Glycerol permeability
Arachidonic acid; Cholesterol; Diabetes mellitus; Fatty acid; Phospholipid; Renal cortical membrane; Brush-border membrane; Basolateral membrane; DPH; Fluorescence polarization (Ramsammy, L.S. (1146) 1)

Glycerol / water mixture
Phase equilibrium; Vesicle formation; DOPC; X-ray diffraction; NMR, ^{31}P- (Johansson, L.B.-Å. (1149) 285)

Glycerophospholipid
Molecular species; 1,2-Diacylglycerol; Peripheral nerve; Experimental diabetes (Zhu, X. (1168) 1)

Glycerophosphorylcholine
Organic osmolyte; Choline metabolism; Phosphatidylcholine; Metabolic pathway; Collecting duct; IMCD cell; (Rat kidney) (Bauernschmitt, H.G. (1148) 331)

Glycerophosphorylcholine:choline phosphodiesterase
Osmoregulation; Organic osmolyte; Glycerophosphorylcholine metabolism; (Rat kidney); (Collecting duct); (IMCD cell) (Bauernschmitt, H.G. (1150) 25)

Glycerophosphorylcholine metabolism
Osmoregulation; Organic osmolyte; Glycerophosphorylcholine:choline phosphodiesterase; (Rat kidney); (Collecting duct); (IMCD cell) (Bauernschmitt, H.G. (1150) 25)

Glycine
Threonine metabolism; L-Threonine dehydrogenase; 2-Amino-3-ketobutyrate ligase; L-Threonine aldolase (Marcus, J.P. (1164) 299)

Glutamine; Metabolism; (Rat hepatocyte) (Vincent, N. (1175) 13)

Glycinebetaine
Heat stability; Electron transport; Fatty acid; Thylakoid membrane; (*Synechocystis* PCC6803) (Mamedov, M. (1142) 1)

Oxygen-evolving complex; Manganese cluster; Photosystem II (Mohanty, P. (1144) 92)

Glycogen
α-1,4-Glucan lyase; 1,5-Anhydrofructose; α-1,4-Glucan; Starch; Gracilariales (Yu, S. (1156) 313)

Pigeon lens; δ-Crystallin; Argininosuccinate lyase; Polymerase chain reaction; Sequence comparison; (*C. livia*) (Chiou, S.-H. (1160) 317)

Primary cell culture; Calyculin A; Okadaic acid; Protein phosphatase-1; (Hepatocyte) (Pugazhenthi, S. (1179) 271)

Skeletal muscle; Glucose metabolism; Ethanol; Insulin (Cook, E.B. (1180) 207)

Glycogenesis
Prostaglandin; 16,16-Dimethylprostaglandin; Pertussis toxin; (Cultured rat hepatocyte) (Okumura, T. (1176) 137)

Glycogen phosphorylase
Isozyme; Amino acid substitution; Carbohydrate metabolism (Hudson, J.W. (1164) 197)

Glycolipid
5-Mycoloylarabinofuranosyl-5-mycoloylarabinofuranosylglycerol; *Mycobacterium avium—M. intracellulare* complex (Watanabe, M. (1165) 53)

Endotoxin; Dansylcadaverine; Polymyxin B (David, S.A. (1165) 147)

Acylglucosylceramide; Epidermoside; Epidermal cell; Ceramide monohexoside; Cultured human keratinocyte; (Human) (Hamanaka, S. (1167) 1)

Mycobacterium; Glucuronic acid; Antigenic mycobacterial glycolipid; FABMS; NMR, ^{1}H- (Wolucka, B.A. (1170) 131)

***N*-Glycoloylneuraminic acid**
Sialic acid; Hydroxylase; CMP-*N*-acetylneuraminic acid; (Starfish); (*A. rubens*) (Schlenzka, W. (1161) 131)

Glycolysis
Oil seed; Pyruvate kinase; Enzyme regulation; Enzyme kinetics; Phospho*enol*pyruvate (Podestá, F.E. (1160) 213)

Phospholipase A_2; Phospholipid modification; Erythrocyte; Lactate production; Glucose utilization; (Human) (Miwa, I. (1175) 174)

Differentiation; Insulin; Glucose; Gluconeogenesis; Proximal tubule cell; (Rabbit) (Courjault, F. (1177) 147)

Calcium ionophore A23187; ATP depletion; Calcium; Enzyme release; Oxidative phosphorylation; (Fibroblast) (Kristensen, S.R. (1179) 23)

Glycolytic inhibitor
Magnesium ion; Calcium ion; ATP; ADP; AMP; Mitochondrial inhibitor; (Opossum kidney) (Li, H.-y. (1181) 307)

Glycopeptide
Lipid bilayer; Helix orientation; Lectin; Ion channel; Fluorescence (Otoda, K. (1145) 33)

Glycophorin
Sialoglycoprotein; Influenza virus receptor; Erythrocyte; (Human) (Ohyama, K. (1148) 133)

Electroinsertion; Lateral diffusion; Video microscopy; Microscopy (El Ouagari, K. (1151) 105)

Glycophorin HA affinity chromatography
Sialoglycoprotein; Asian horseshoe crab; *Tachypleus tridentatus* (Tsuboi, I. (1156) 255)

Glycophospholipid-anchored glycoprotein
Cholesterol; CD14; Monocyte; Fc receptor (Esfahani, M. (1149) 217)

Glycoprotein
Glycoprotein, P-; Multidrug resistance; ATPase; Detergent; Phospholipid (Doige, C.A. (1146) 65)

P-glycoprotein; Blood-brain barrier; Brain capillary (Jetté, L. (1150) 147)

Erythrocyte membrane; Band 3; Membrane; Association state; (Human) (Wong, P. (1151) 21)

P-glycoprotein; Transport activity; Progesterone; Progesterone metabolite; Multidrug resistance; (Adrenal gland) (Lchikawa-Haraguchi, M. (1158) 201)

α-Fetoprotein; Albumin; Receptor; Lymphoid cell; Membrane protein; Albumin binding protein (Torres, J.-M. (1159) 60)

Flocculent yeast; Cell wall protein; Western blot; (*K. marxianus*) (Fernandes, P.A. (1159) 67)

ATP binding site; Multidrug resistance; P-glycoprotein; 3′ Untranslated region; Detoxification; (Winter flounder) (Chan, K.M. (1171) 65)

Platelet; Megakaryoblastic cell; PMA; GPIb; Membrane (Moroi, M. (1177) 139)

Glycoprotein, P-
Glycoprotein; Multidrug resistance; ATPase; Detergent; Phospholipid (Doige, C.A. (1146) 65)

Initiator; MDR1; Promoter; Transcriptional regulation (Van Groenigen, M. (1172) 138)

Glycoprotein Ib
Fibrinogenase; Signal Transduction (Huang, T.-F. (1158) 293)

Glycoprotein, 53 kDa
Monoclonal antibody; Calcium ion uptake (Matthews, I. (1146) 265)

Glycosaminoglycan
Sendai virus; Membrane fusion; Liposome; Dextran sulfate; Poly(ethylene glycol) (Zschörnig, O. (1148) 1)

Proteoglycan; Neurite-promoting (Dow, K.E. (1156) 7)

Skin; Vitamin E; Ultraviolet light; Infrared; NMR ^{1}H-; (Rat) (Longas, M.O. (1156) 239)

Tumor necrosis factor α; Cytokine; (Bovine vascular smooth-muscle cell) (Kaji, T. (1176) 20)

Glycosidase
Hydroxylysine glycoside; Collagen (Moro, L. (1156) 288)

Glycosphingolipid
Neutral glycosphingolipid; NMR, ^{1}H-; FABMS; GC-MS; (*A. juliana*) (Yamaguchi, Y. (1165) 110)

Tubular tumor cell; Galactosyltransferase, B1-4; Lactosylceramide; LDL receptor; Kidney; (Human) (Chatterjee, S. (1167) 339)

HIV; HTLV-I; Ganglioside (Matsuda, K. (1168) 123)

Annelid; Phosphocholine; Galactosylceramide; Recycling HPLC; (*Neanthes diversicolor*) (Noda, N. (1169) 30)

Ganglioglycolipid; B-active lipid; Glioma; (Rat) (Suetake, K. (1170) 25)

β-Glucosidase activity; Gaucher disease; Fibroblast; (Human) (Agmon, V. (1170) 72)

Ganglioside; Monocyte/macrophage differentiation; UDP-glucose : ceramide glucosyltransferase; UDP-galactose : glucosylceramide β-galactosyltransferase; CMP-*N*-acetylneuraminic acide : lactosylceramide sialyltransferase (Kiguchi, K. (1176) 27)

Blood group; Glycosphingolipid biosynthesis; Mass spectrometry; (Human kidney) (Holgersson, J. (1180) 33)

Glycosphingolipid biosynthesis
Blood group; Glycosphingolipid; Mass spectrometry; (Human kidney) (Holgersson, J. (1180) 33)

Glycosylated sterol
Tonoplast; Phospholipid; Sterol; Lipid composition; Phospholipase A_2; (*Acer pseudoplatanus*) (Tavernier, E. (1167) 242)

Glycosylation
Glucose transport; Glucose transporter; Transforming growth factor-β; TGF-β; (Mouse fibroblast 3T3) (Masumi, A. (1145) 227)

Sodium–calcium ion exchange; In vitro translation; Signal sequence; Site-directed mutagenesis; Patch clamp (Hryshko, L.V. (1151) 35)

Plasminogen activator; Site-specific mutagenesis (Li, X.-K. (1159) 37)

Juvenile hormone; Juvenile hormone esterase; Posttranslational modification; Isoform; Peptide mapping (Jones, G. (1161) 235)

Peroxidase; Phenolic compound; Protoporphyrin IX; EPR; High-spin ferric state; (*P. ostreatus*) (Kang, S.-O. (1163) 158)

Antibody; Adenosine receptor, A_1; Immunoprecipitation; (Rat brain) (Nakata, H. (1177) 93)

Cell growth; Cell cycle; Immunoglobulin superfamily; Interleukin 1 receptor; Protein secretion (Takagi, T. (1178) 194)

***N*-Glycosylation**
Leukotriene D_4; Leukotriene D_4 receptor; THP-1 cell line; Radioreceptor binding; Radiation inactivation; Target size (Rochette, C. (1177) 283)

Glycosylation site
Pro-major basic protein (proMBP); Peptide mapping; Proteoglycan (Shikata, Y. (1163) 243)

Glycosylphosphatidylinositol anchor
Anti-CRD antibody; Crossreacting determinant; Insulin mediator; Membrane dipeptidase (Broomfield, S.J. (1145) 212)

Glycyrrhetinic acid
Binding protein; 11β-Hydroxysteroid dehydrogenase; Microsome; (Rat liver) (Irie, A. (1160) 229)

Glyoxalase I
Glutathione [glycyl]ethyl ester; Glutathione [glycyl]methyl ester (Hamilton, D.S. (1159) 203)

Glutathione *S*-transferase; Carcinoma; Tumor marker; Colon; (Human) (Ranganathan, S. (1182) 311)

Glyoxylate cycle
Isocitrate lyase; Malate synthase (Holmes, R.P. (1158) 47)

GM3
Sphingomyelinase; Copper; Sphingomyelin; Ganglioside; Phosphatidylserine; (Rat) (Lister, M.D. (1165) 314)

G985 MCAD mutation
EBV-based expression vector; COS-7 cell; Subcellular location; Protein instability (Jensen, T.G. (1180) 65)

GM-CSF
Differentiation; Myeloid leukemia cell; ML-9; (U937 cell) (Makishima, M. (1176) 245)

cyclic GMP
Potassium ion current; Osteoblast; Vitamin D-3 (Chesnoy-Marchais, D. (1148) 239)

Atrial natriuretic peptide; Protein kinase C; (Rat vascular smooth muscle cell) (Kawabe, J.-i. (1175) 81)

Nitric oxide; Endothelium-derived relaxing factor; Guanylyl cyclase; Protein kinase; Phosphorylation (Schmidt, H.H.H.W. (1178) 153)

Muscarinic receptor; Receptor antagonist; Cyclic nucleotide; Signal transduction; (Rat large intestine) (Khare, S. (1179) 234)

cyclic GMP cascade
Amplification; Kinetics; Activation step; Phototransduction (Pugh, Jr., E.N. (1141) 111)

cyclic GMP phosphodiesterase
Rod outer segment membrane; Photoreceptor; Transducin; Site-directed mutagenesis (Lipkin, V.M. (1176) 250)

Gold thiol
Hemoglobin; Oxidation; Thiol; Zinc; Copper (Potuznik, S. (1164) 289)

Golgi apparatus
Ceramide; Lipid transfer; Lipid sorting; Endoplasmic reticulum (Moreau, P. (1146) 9)

Gouy-Chapman equation
Phosphatidylcholine; Phosphatidylglycerol; Hydrolysis; Liposome; Surface pH (Grit, M. (1167) 49)

gp80
Clusterin; DNA transfection; Protein secretion; Apoptosis (Pilarsky, C. (1179) 306)

gp120
HIV-1; gp160; Heparin (Mbemba, E. (1180) 123)

gp160
HIV-1; gp120; Heparin (Mbemba, E. (1180) 123)

GPIb
Platelet; Megakaryoblastic cell; PMA; Glycoprotein; Membrane (Moroi, M. (1177) 139)

G protein
Phospholipase C; Bombesin; Tyrosine kinase; Platelet-derived growth factor (Imoto, M. (1166) 188)

cDNA cloning; Tissue distribution; (Guinea pig) (Sakanaka, C. (1175) 61)

fMLP; Adenosine; Adherence; Superoxide anion; Signal transduction (Burkey, T.H. (1175) 312)

Prostaglandin E receptor; Ligand binding; Transfection (Negishi, M. (1175) 343)

Fat cell; (Hamster) (Dieudonne, M.-N. (1176) 123)

Arachidonic acid; Phospholipase A_2; Signal transduction; (Mouse macrophage) (Fernández, B. (1176) 169)

Permeabilization; Exocytosis; Calcium; ATP; Guanine nucleotide; Transphosphorylation; (Mast cell) (Koffer, A. (1176) 231)

Alkylamine; Exocytosis; Mastoparan; (Mast cell); (Rat) (Fischer, T. (1176) 305)

Adenylyl cyclase; Hypersensitivity; Protein kinase C; (Lung); (Guinea pig) (Grady, M. (1176) 313)

Phorbol ester; α_1-Adrenergic receptor; Receptor desensitization; Hepatocyte; (Rat) (Beeler, J.F. (1176) 339)

Electropermeabilization; Signal transduction; NADPH oxidase; cyclic AMP; Neutrophil; (Human) (Mitsuyama, T. (1177) 167)

Interleukin 8; Receptor; Signal transduction; Neutrophil; Chemotaxis (Barnett, M.L. (1177) 275)

Protein kinase C; Chemotaxis; R59022; GTPγS; fMet-Leu-Phe (Boonen, G.J.J.C. (1178) 97)

Phosphatidylinositol(3,4,5)-triphosphate; Intracellular signalling; Inositol lipid; PI-3 kinase; Growth factor; Protein tyrosine kinase (Stephens, L.R. (1179) 27)

Receptor, tyrosine kinase; Receptor, ion channel; Down-regulation (Lohse, M.J. (1179) 171)

G protein-coupled receptor
Muscarinic receptor gene; Acetylcholine; Nucleotide sequence; (Mouse) (Van Koppen, C.J. (1173) 342)

G protein γ-subunit
GTPγS binding; ADP-ribosylation; Gel filtration; (Bovine brain) (Sohma, H. (1178) 111)

Gracilariales
α-1,4-Glucan lyase; 1,5-Anhydrofructose; α-1,4-Glucan; Starch; Glycogen (Yu, S. (1156) 313)

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Gramicidin
Membrane; Transport; Phenylalanine; NMR, ^{23}Na- (Hinton, J.F. (1146) 191)

Phase separation; Calcium ion concentration; Bimolecular lipid membrane; Single-channel current; Ion translocation (Mittler-Neher, S. (1152) 259)

Micelle; Tryptophan; Ultraviolet photolysis; Degradation; Photolytic degradation; Rate constant (McKim, S. (1153) 315)

Doppler scattering; Intrachannel velocity; Velocity, ion; Laser Doppler velocity (Macias, F. (1153) 331)

Gramicidin A
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Gramicidin A′
Partition coefficient; Gel-fluid partitioning; Fluorescence quenching; Hydrophobic mismatch (Dibble, A.R.G. (1153) 155)

Gramicidin S
Actinomycin D; Actinomycin SG_3; Bacitracin A; Proteinase inhibitor; Subtilisin (Betzel, C. (1161) 47)

Granule
Annexin; Neutrophil; Membrane fusion; Phospholipid vesicle (Meers, P. (1147) 177)

Granulocyte
(*n*–3) Fatty acid; Leukotriene; Icosanoid; Fish oil; Cytochrome *P*-450 (Von Schacky, C. (1166) 20)

Granulocyte colony-stimulating factor
Tumor necrosis factor; Granulocyte-macrophage colony-stimulating factor; Tyrosine phosphorylation; Intracellular alkalinization; (Human neutrophil) (Yuo, A. (1156) 197)

Granulocyte-macrophage colony-stimulating factor
Tumor necrosis factor; Granulocyte colony-stimulating factor; Tyrosine phosphorylation; Intracellular alkalinization; (Human neutrophil) (Yuo, A. (1156) 197)

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GroE
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Growth factor
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NGFI-B; Steroid/thyroid receptor superfamily; (*Xenopus laevis*) (Smith, T.S. (1173) 239)

IL-1ra; Cytokine; Synovial fibroblast; Receptor antagonist (Martel-Pelletier, J. (1175) 302)

Insulin; Ribosomal protein; Ribosomal protein S6; Protein kinase; cyclic-AMP-dependent protein kinase (Donella-Deana, A. (1178) 189)

Osteogenic growth peptide; Histone H4; Osteoblast; Fibroblast; Binding protein (Greenberg, Z. (1178) 273)

Phosphatidylinositol(3,4,5)-triphosphate; Intracellular signalling; Inositol lipid; PI-3 kinase; Protein tyrosine kinase; G protein (Stephens, L.R. (1179) 27)

Growth hormone gene
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Growth hormone-releasing factor
Dipeptidyl peptidase IV; Growth hormone-releasing factor analog; Substrate specificity; Deamidation (Martin, R.A. (1164) 252)

Growth hormone-releasing factor analog
Dipeptidyl peptidase IV; Growth hormone-releasing factor; Substrate specificity; Deamidation (Martin, R.A. (1164) 252)

GTP analog
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GTP-binding protein
Calcium; Cerebral cortex; Clathrin-coated vesicle; Optic nerve (Bielinski, D.F. (1151) 246)

ram p25; Expression system; Protein purification; (Baculovirus) (Suzuki, T. (1159) 162)

Membrane; Secretory pathway; (human platelet) (Nagata, K.-i. (1160) 193)

Mammary gland; Lipid globule; Lipid secretion; Endoplasmic reticulum; Plasma membrane; (Milk) (Ghosal, D. (1168) 299)

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Palmitoylation; Prenylation; Sequence homology; Nucleotide sequence; (*P. polycephalum*) (Kozlowski, P. (1174) 299)

Low molecular weight GTP-binding protein; Sarcoplasmic reticulum (Kutchai, H. (1175) 140)

Osmoregulation; Small GTP-binding protein; Vesicular trafficking; Cell volume control; (*D. salina*) (Memon, A.R. (1179) 11)

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Tetrahydrobiopterin; Northern blot; Polymerase chain reaction (Gütlich, M. (1171) 133)

GTPase
Elongation factor G; Regulation; Translocation; Ribosome (Nagel, K. (1174) 153)

GTPγS
Mast cell; Permeabilization; Exocytosis; Calcium; ATP (Koffer, A. (1176) 222)

Insulin; Staurosporine; H-7; (Rat adipocyte) (Yano, Y. (1176) 327)

Protein kinase C; G protein; Chemotaxis; R59022; fMet-Leu-Phe (Boonen, G.J.J.C. (1178) 97)

GTPγS binding
G protein γ-subunit; ADP-ribosylation; Gel filtration; (Bovine brain) (Sohma, H. (1178) 111)

Guanidine hydrochloride
Protein denaturation; Cytochrome *c*; Fluorescence line narrowing; Inhomogeneous broadening; Energy selection (Logovinsky, V. (1161) 149)

Glucose-6-phosphate dehydrogenase; Renaturation (Plomer, J.J. (1163) 89)

β-Guanidinopropionic acid
Creatine; NMR, ^{31}P-; Creatine kinase; Cardiac energy metabolism; (Isolated perfused rat heart) (Unitt, J.F. (1143) 91)

Guanine nucleotide
Protein synthesis; Initiation factor (Flynn, A. (1174) 117)

Bombesin; Receptor; Ligand binding (Wang, L.-H. (1175) 232)

Permeabilization; Exocytosis; Calcium; ATP; G protein; Transphosphorylation; (Mast cell) (Koffer, A. (1176) 231)

Guanine nucleotide binding protein
Inositol lipid; Phospholipase C; Co-expression; Immunoblotting (Milligan, G. (1179) 208)

Guanylate cyclase
Protein kinase C; (PC12 cell) (Louis, J.-C. (1177) 299)

Guanylyl cyclase
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H

H-7
Insulin; Staurosporine; GTPγS; (Rat adipocyte) (Yano, Y. (1176) 327)

Hageman factor
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Haloalkaliphilic
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Halofuginone
Collagen; Fibroblast; Chondrocyte (Granot, I. (1156) 107)

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Hb Dallas
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Lipoprotein; Receptor; HepG2 cell; Selective uptake; Binding (Brissette, L. (1165) 84)

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Dolichol; Lipid transfer; Lipoprotein; VLDL (Van Dessel, G. (1166) 64)

Lipoprotein; Liver; Cholesteryl ester; Cholesteryl ether; Selective uptake; Hepatoma; Plasma membrane (Rinninger, F. (1166) 275)

Lipoprotein; LDL; Liver; Selective uptake; Cholesteryl ester metabolism; Reverse cholesterol transport; Plasma membrane (Rinninger, F. (1166) 284)

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Proapolipoprotein AI; Catabolism; Fractional catabolic rate; Isoelectric focusing; Isoprotein; Turnover study (Saku, K. (1167) 257)

Macrophage; LDL; Prostaglandin; Atherosclerosis; HPLC (Jambou, D. (1168) 115)

Lecithin-cholesterol acyltransferase; Lysolecithin acyltransferase; Apoprotein activator; LDL (Liu, M. (1168) 144)

HDL-binding site; Lysosome; Chloroquine; Mahlavu; Hepatoma cell line; (Human) (Sakai, N. (1169) 169)

Reverse cholesterol transport; Coronary heart disease; Preβ apo A-I; Subpopulation; Plasma lipoprotein; Electrophoresis, two-dimensional; Ultracentrifugation (Asztalos, B.F. (1169) 291)

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Lipoprotein; VLDL; Jejunum (Loirdighi, N. (1175) 100)

Tangier disease; Plasma lipoprotein; Cholesterol transport; Apolipoprotein (Duchateau, P. (1182) 30)

HDL-binding site
HDL; Lysosome; Chloroquine; Mahlavu; Hepatoma cell line; (Human) (Sakai, N. (1169) 169)

HDL receptor
HDL; Acetylated HDL; Macrophage; Scavenger receptor; Chemical modification (Miyazaki, A. (1170) 143)

HDL subpopulation
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Headgroup order
Large unilamellar vesicle; Membrane potential; NMR, ^{2}H-; Phosphatidylcholine; Tetraphenylphosphonium (Leenhouts, J.M. (1153) 257)

Heart
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Mitochondrion; Isolation; NADH; Respiratory chain (Fraisse, L. (1143) 190)

Phosphocreatine; Creatine kinase; ATP/ADP translocase; Mitochondrion; Oxidative phosphorylation; Mathematical modeling (Aliev, M.K. (1143) 291)

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Heart endothelial cell
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Heat evolution
Photosynthesis; Light harvesting complex; Energy quenching; Fluorescence quenching; Optoacoustic spectroscopy (Mullineaux, C.W. (1143) 235)

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Heat shock
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Gene regulation; HSP70; Stress; (*Tetrahymena*) (Amaral, M.D. (1174) 133)

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Thermotolerant cell; Heat shock transcription factor (Hatayama, T. (1179) 109)

Heat shock transcription factor
Heat-shock protein; Thermotolerant cell (Hatayama, T. (1179) 109)

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Heavy metal
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Helical peptide
Bilayer membrane; Membrane-spanning peptide; Peptide–bilayer interaction; Peptide assembly (Otoda, K. (1150) 1)

α-Helical periodicity
Alpha helix; Fourier transform; Hydropathy analysis; ATP synthase, F_1F_0-; Proton channel (Vik, S.B. (1140) 199)

α-Helical content
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Hemagglutinating activity
Lectin; Phytohemagglutinin; Mitogenic activity; (Great Northern bean); (*P. vulgaris*) (Kamemura, K. (1158) 181)

Hemagglutinating virus of Japan (HVJ)
Liposome; Gene transfer, in vivo; Hepatitis B virus; Cytotoxicity; T lymphocyte (Kato, K. (1182) 283)

Hemagglutination reaction
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Hemagglutinin
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β-Hematin
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Heme
Reaction center; Cytochrome *c*; Electron transfer; Redox potential; Membrane potential; (*Rs. molischianum*) (Nagashima, K.V.P. (1140) 297)

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Heme electronic structure
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Heme O
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Heme orientation
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Heme oxygenase
Stress protein; Macrophage; Hydrogen peroxide (Sato, H. (1148) 127)

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Heme protein
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Hemicholinium (HC-3)
Choline; Epithelial cell; Transport system; Polarity; (MDCK cell) (Zlatkine, P. (1153) 237)

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Fluorescence; Membrane potential; Neuron membrane; (Leech) (Fromherz, P. (1150) 111)

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Hemocyanin subunit
Equilibration kinetics; Hemocyanin; Temperature jump; Stopped-flow technique (Andrew, C.R. (1162) 105)

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Hb Dallas; Abnormal hemoglobin; Allosteric model (Lendaro, E. (1180) 15)

Oxygen affinity; Polycythemia (Wajcman, H. (1180) 53)

Hemoglobin hydrolysis
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Hemopoietic progenitor cell
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Hemoprotein
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Hemorrhagic protein
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Hemozoin
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Heparin-amine salt
Behavior in solution; Anti-Xa activity; Intraduodenal absorption (Zoppetti, G. (1156) 92)

Heparin-Sepharose
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Heparitin sulfate proteoglycan
Basic fibroblast growth factor; bFGF; Myocardium; Plasma membrane (Ross, C.R. (1145) 219)

Hepatectomy
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Hepatic fatty acid synthesis
Polyunsaturated fatty acid; Cell viability; Lipid peroxidation; Long-term culture; (Rat hepatocyte culture) (Mikkelsen, L. (1166) 99)

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Hepatocyte
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Endotoxin; Lipopolysaccharide; Lipid peroxidation; Free radical; Endotoxic shock (Portolés, M.T. (1158) 287)

Phosphatidylethanolamine; Phosphatidylserine; (Rat) (Samborski, R.W. (1167) 15)

Phospholipid molecular species; Phosphatidylcholine; Phosphatidylethanolamine; Stearic acid; Palmitic acid; (Rat) (Woldseth, B. (1167) 296)

Morris rat hepatoma cell; Peroxisomal β-oxidation; Retinoid; Bile acid; (Rabbit) (Östlund Farrants, A.-K. (1168) 100)

Alanine; Metabolism; Model (Martin, G. (1175) 161)

Tyramine; Transporter; (Rat) (Zhong, Z.-D. (1176) 77)

Phorbol ester; α_1-Adrenergic receptor; G protein; Receptor desensitization; (Rat) (Beeler, J.F. (1176) 339)

Peroxisome proliferator; Fatty acid binding protein; Acyl-CoA binding protein (Vanden Heuvel, J.P. (1177) 183)

Chick IL-6; Regulation; Fibroblast; Fibronectin (Samad, F. (1181) 207)

Hepatocyte monolayer
Gemfibrozil; Phosphocholine cytidylyltransferase; Phosphatidylcholine; Triacylglycerol; Oleate; (Rat) (Lamb, R.G. (1165) 299)

Hepatoma
Lipoprotein; HDL; Liver; Cholesteryl ester; Cholesteryl ether; Selective uptake; Plasma membrane (Rinninger, F. (1166) 275)

Hepatoma cell
Palmitoyl-CoA synthetase; Isolated hepatocyte; 3-Thia fatty acid; Dexamethasone; Insulin; (Rat) (Wu, P. (1170) 118)

Hepatoma cell line
HDL; HDL-binding site; Lysosome; Chloroquine; Mahlavu; (Human) (Sakai, N. (1169) 169)

Hepatoma / hepatocyte
Monoacylglycerol acyltransferase; Lipid metabolism; Hybrid cell; Diacylglycerol; Permeabilized cell (Coleman, R.A. (1165) 306)

HEPC
Phospholipase A_2; Microplate assay (Bhat, M.K. (1166) 244)

HepG2
T_3 sulfate; Homogenate; (Rat); (Human liver) (Van Stralen, P.G.J. (1157) 114)

LDL; Apo B-100; LDL receptor (Hara, S. (1168) 199)

HepG2 cell
Lipoprotein; Receptor; Selective uptake; HDL; Binding (Brissette, L. (1165) 84)

Smoking; Lipoprotein lipid; Oleate; Epinephrine; Dexamethasone; Nicotine (Craig, W.Y. (1165) 249)

Fluvastatin sodium (XU62-320); HMG-CoA reductase inhibitor; LDL receptor (Hayashi, K. (1167) 223)

NB-598; Squalene epoxidase inhibitor; L-654,969; Lipid secretion; Apolipoprotein secretion (Horie, M. (1168) 45)

Hepsin
Serine proteinase; Proteinase, membrane-bound; cDNA sequence; (Rat liver) (Farley, D. (1173) 350)

Herbicide
Photosystem II; Electron transfer; Cholate; Quinone-iron acceptor complex; EPR (Bowlby, N.R. (1144) 271)

Herbicide binding
Energy minimization; Modeling; D1 protein (Egner, U. (1142) 106)

Herbicide resistance
Thermoluminescence; Oxygen evolution; D1 protein; Photosynthesis; (*Synechococcus* PCC7942) (Gleiter, H.M. (1140) 135)

Hereditary tyrosinemia
Neurotoxicity; Succinylacetone (Wyss, P.A. (1182) 323)

15-HETE
Cytokine; Cyclooxygenase; 15-Lipoxygenase; Endothelial cell (López, S. (1170) 17)

Heterocyst gycolipid
Water stress; Membrane; Protein stability; Cyanobacterium; (*N. Commune*) (Taranto, P.A. (1168) 228)

Heterodimer
ATP synthase; ATPase, F_1-; Catalytic subunit; Enzyme reconstitution; (*R. rubrum*) (Andralojc, P.J. (1143) 51)

Heterologous expression
Structure-function; Androstenedione; Androstenedione hydroxylation; Polychlorinated biphenyl; Cytochrome *P*-450 (Kedzie, K.M. (1164) 124)

Heterologous protein
(pro)Phospholipase A_2; Processing; Yeast secretion vector (Kanda, A. (1171) 1)

Heteroxylan
Xylanase; Endo-β-1,4-xylanase; Subunit; Kinetics; (*S. lividans*) (Biely, P. (1162) 246)

(*n*–4)Hexadecadienoic acid
Furan fatty acid; Furan biosynthesis of fatty acid; Lipoxygenase; Alga; (*Isochrysis* sp.); (*P. tricornutum*) (Batna, A. (1166) 171)

Hexagonal H_{II} phase
1-Palmitoylphosphatidylcholine; Lyso-PAF; PAF; DSC; NMR, ^{31}P- (Salgado, J. (1145) 284)

Hexagonal II phase
Phosphatidylcholine; Phosphatidylethanolamine; Lyotropic phase behavior; Freezing stress; Dehydration (Webb, M.S. (1145) 93)

Hexagonal phase
N-Acylethanolamine; Cubic phase; Phosphatidylethanolamine (Ambrosini, A. (1148) 351)

Hexammineruthenium(III)
NADH : ubiquinone oxidoreductase; Electron transfer; Steady-state kinetics; (Bovine heart mitochondria) (Sled, V.D. (1141) 262)

Hexokinase
Mitochondrion; Outer mitochondrial membrane; Dextran; Compartmentation; Contact site; Intermembrane space (Wicker, U. (1142) 228)

Macrophage; Dexamethasone; Phorbol; Glucose; 2-Deoxy-D-glucose (Naftalin, R.J. (1148) 39)

Hexosaminidase
Argentinean deme; Deme; Lysosomal storage disease; G_{M2} gangliosidosis (Brown, C.A. (1180) 91)

Sandhoff disease; Genetic compound; Amino acid substitution (Bolhuis, P.A. (1182) 142)

Hexose monophosphate shunt
Oxygen radical; Glucose; Lipopolysaccharide; Glutathione; (Liver) (Spolarics, Z. (1179) 134)

hGH DNAc
recombinant DNA; Differential splicing; Transient and stable expression; Eukaryotic expression vector; Adipogenic activity (Rincón-Limas, D.E. (1172) 49)

High energy quenching
Calcium depletion; Photosystem II; Primary quinone acceptor; Redox shift; Thermoluminescence (Krieger, A. (1144) 411)

High-energy state
Light harvesting complex; Energy transfer; Picosecond fluorescence; Fluorescence quenching (Mullineaux, C.W. (1141) 23)

Higher plant
cis-9,*cis*-15-Octadecadienoic acid; Butylene-interrupted dienoic fatty acid; Fruit pulp; (Mango) (Shibahara, A. (1170) 245)

High fat diet
Fatty acid content; Peroxisome; Mitochondrion; β-Oxidation; Liver; Heart; (Rat) (Vamecq, J. (1170) 151)

High potential iron protein
Purple sulfur bacterium; Cytochrome bc_1 complex; Cytochrome c_2; HiPIP (Tan, J. (1144) 69)

High potential iron-sulfur protein
Molecular modeling; Iron-sulfur cluster; EPR (Adman, E.T. (1142) 93)

High pressure
Vesicle; Protein 4.1; Diamide; Erythrocyte; (Human) (Yamaguchi, T. (1147) 1)

FTIR; Fluorescent probe; Liposome (Chong, P.L.-G. (1149) 260)

Quisqualate; L-Glutamate receptor; Ketamine; Channel gating; (Locust muscle) (Macdonald, A.G. (1151) 13)

Infrared spectroscopy; Protein conformation; Immunoglobulin G; Bovine serum albumin (Howlett, J.R. (1159) 227)

High-pressure infrared spectroscopy
Enzyme kinetics; Alkaline phosphatase; Hyperbaric manipulation (Wong, P.T.T. (1159) 237)

High pressure liquid chromatography
Type IV collagen; Noncollagenous domain; Aorta; Western blotting; Immunofluorescence (Reddy, G.K. (1157) 241)

High pressure study
Hemoglobin; Protein dissociation; (*L. terrestris*) (Hirsch, R.E. (1161) 285)

High-spin ferric state
Peroxidase; Glycosylation; Phenolic compound; Protoporphyrin IX; EPR; (*P. ostreatus*) (Kang, S.-O. (1163) 158)

High-sucrose diet
Lipogenesis; Pyruvate dehydrogenase complex; Lipogenic enzyme; (Fish oil) (Da Silva, L.A. (1169) 126)

Highly repetitive DNA
DNA; Bent DNA; DNA binding protein; Nuclear scaffold; Protein characterization; (Rat liver) (Hibino, Y. (1174) 162)

Highly unsaturated fatty acid
Arachidonic acid; Linoleic acid; ($n-3$) Fatty acid; Icosanoid; Icosapentaenoic acid; Plasma phospholipid; Dietary fat (Lands, W.E.M. (1180) 147)

Hindlimb
Amino acid; Skeletal muscle; Sarcolemmal exchange (Hundal, H.S. (1180) 137)

HiPIP
Purple sulfur bacterium; Cytochrome bc_1 complex; Cytochrome c_2; High potential iron protein (Tan, J. (1144) 69)

Histamine
Aminopyrine accumulation; cyclic AMP; Glucose oxidation; Ranitidine; (Rat) (Li, Z.-Q. (1175) 250)

Aminopyrine accumulation; cyclic AMP; Phosphodiesterase inhibitor; Ranitidine (Cabero, J.L. (1177) 245)

Histidase
Dicarbonyl; *hut* gene; Methylglyoxal; Phenylglyoxal; (*S. griseus*) (White, P.J. (1163) 273)

Histidine
Methionine; Methionine sulfoxide; Oxidation; Dithiothreitol; Hydroxyl radical (Schöneich, C. (1158) 307)

Histidine-rich glycoprotein
Plasminogen activation; α_2-Antiplasmin; Fibrin; Fibrinolysis; Serine proteinase (Angles-Cano, E. (1156) 34)

Histone H1
Topoisomerase I; DNA relaxation; (*U. maydis*) (Thiyagarajan, M.M. (1173) 155)

DNA methylation; CpG in linker DNA (D'Erme, M. (1173) 209)

Aluminum; Non-enzymatic glycation; Nucleotide binding; Transcriptional regulation; (Rat) (Tarkka, T. (1180) 294)

Histone H1d gene
Sequencing; Sequence comparison; (Rat); (Human) (Drabent, B. (1172) 193)

Histone H4
Osteogenic growth peptide; Growth factor; Osteoblast; Fibroblast; Binding protein (Greenberg, Z. (1178) 273)

Histone-like protein
DNA binding; Supercoiling; Nucleoid; (*B. subtilis*) (Le Hégarat, F. (1172) 101)

HIV
Fusion peptide; Lipid mixing; FTIR (Martin, I. (1145) 124)

Membrane; NMR, ^{31}P-; Magnetic orientation; Liposome; Phosphatidylcholine; AIDS (Qiu, X. (1147) 59)

HIV-1
Membrane fusion; Fluorescence dequenching; Liposome (Larsen, C.E. (1147) 223)

Nucleoside diphosphate diacylglycerol; AZT; ddC; 3′-Deoxythymidine (Van Wijk, G.M.T. (1165) 45)

HTLV-I; Ganglioside; Glycosphingolipid (Matsuda, K. (1168) 123)

gp160; gp120; Heparin (Mbemba, E. (1180) 123)

Infection; Syncytium formation; Maleylated albumin; Receptor (Takami, M. (1180) 180)

Principal neutralizing determinant; V3 loop (Murakami, T. (1181) 155)

Sulfonic acid polymer; HIV-2; Inhibition; Reverse transcriptase (Tan, G.T. (1181) 183)

gag; p6; Protein structure; Proteinase; Open reading frame (Stys, D. (1182) 157)

Purine nucleotide; Lymphocyte; AIDS (Tabucchi, A. (1182) 317)

HIV-1 reverse transcriptase
Template interaction; Kinetic analysis; Crosslinking analysis (Andreola, M.-L. (1173) 147)

HIV-2
Sulfonic acid polymer; HIV-1; Inhibition; Reverse transcriptase (Tan, G.T. (1181) 183)

anti-HIV peptide
Tachyplesin I; Polyphemusin II; NMR, ^{1}H-; Distance geometry; (XPLOR) (Tamamura, H. (1163) 209)

HL-60
1,25-Dihydroxyvitamin D-3; mRNA stability; c-*myc* (Mangasarian, K. (1172) 55)

HMG-CoA lyase
HMG[=S]CoA; Divalent cation (Hruz, P.W. (1162) 149)

HMG-CoA reductase
Hydrogen peroxide inactivation; Hydroxyl radical; Thiol oxidation (Omkumar, R.V. (1156) 267)

Diallyl disulfide; Enzyme inactivation; Irreversible inactivation; Intramolecular disulfide (Omkumar, R.V. (1164) 108)

Esterification; Degradation (Saucier, S.E. (1166) 115)

Simvastatin; Cholestyramine; Apolipoprotein synthesis; mRNA; Hypolipemia; (Rat liver) (Mitchell, A. (1167) 9)

Etofibrate; Triacylglycerol; Free fatty acid; Glycerol; Cholesterol metabolism; (Rat) (Bocos, C. (1168) 340)

Dietary cholesterol; LDL receptor; Cholesterol biosynthesis; Lathosterol; (Rat) (Roach, P.D. (1170) 165)

HMG-CoA reductase inhibitor
Pravastatin; Transport; Liver; Bile acid; (Rat) (Ziegler, K. (1153) 23)

Mevinolin; Cholesterol; Acyl-CoA : cholesterol acyltransferase; LDL; (Caco-2 cell) (Fellermann, K. (1165) 78)

Pravastatin; Lovastatin; Ocular lens; Cholesterol; Vastatin (De Vries, A.C.J. (1167) 63)

Fluvastatin sodium (XU62-320); LDL receptor; HepG2 cell (Hayashi, K. (1167) 223)

HMG[= S]CoA
HMG-CoA lyase; Divalent cation (Hruz, P.W. (1162) 149)

Homeobox
Osteoblastic cell; Bone; Vitamin D (Hodgkinson, J.E. (1174) 11)

Homeobox gene
hox-B5; *hox-B6*; Transcription factor; (*B. rerio*); (Zebrafish) (Molven, A. (1173) 102)

Homeodomain
Octamer; POU domain; Transcription factor; Gene regulation; Development (Verrijzer, C.P. (1173) 1)

Cysteine oxidation; DNA binding; Octamer factor; POU domain (Rigoni, P. (1173) 141)

Homeostasis
Inositol homeostasis; Alkaline phosphatase; Acid phosphatase; *myo*-Inositol-1-phosphatase; 5′-Nucleotidase; Kinetic mechanism; Lithium inhibition; Lithium transport (Gani, D. (1177) 253)

Homogenate
Xanthine oxidoreductase; Isolated heart (Janssen, M. (1156) 307)

HepG2; T_3 sulfate; (Rat); (Human liver) (Van Stralen, P.G.J. (1157) 114)

Homogeneity
Chemotaxis protein; Protein purification; Reconstitution; Methylation; (*B. subtilis*) (Hanlon, D.W. (1158) 345)

Homologous pairing protein
Recombination; (Mouse cell) (Shimokawa, T. (1174) 54)

Homology
Angiogenesis; Ribonuclease superfamily; Ribonuclease inhibitor; Tryptophan fluorescence (Bond, M.D. (1162) 177)

Barley; Antithrombin; Intron; (*H. vulgare*) (Rasmussen, S.K. (1172) 151)

Hormonal induction
Cultured hepatocyte; Lipogenic enzyme; Pyruvate stimulation; (Rat) (Tomita, Y. (1170) 253)

Hormone
Lipoprotein lipase; Adipocyte; Cytokine; Transcription; cDNA; Genomic gene; Promoter (Enerbäck, S. (1169) 107)

Bombesin; Gastrin-releasing peptide; Somatostatin; Receptor (Fanger, B.O. (1179) 300)

Hormone–membrane interaction
Peptide hormone; Gastrin derivative; Lipo-gastrin; Membrane binding; Receptor recognition (Romano, R. (1145) 235)

Hormone-sensitive lipase
Lipid metabolism; Lipoprotein lipase; Fatty acid synthase; Gene expression; Cancer (Thompson, M.P. (1180) 236)

Horse
Transferrin; cDNA sequence; Iron-binding protein; (*E. caballus*) (Carpenter, M.A. (1173) 230)

Horseradish peroxidase
Nonsteroidal antiinflammatory drug; Intestinal peroxidase; Eosinophil peroxidase; Lactoperoxidase; Indomethacin; Acetylsalicylic acid (Chatterjee, R. (1161) 168)

EDTA; Iodide; NMR (Modi, S. (1162) 121)

Housekeeping gene
N-Methyl-D-aspartate recepter 1 gene; Transcription start site; Promoter (Bai, G. (1152) 197)

hox-B5
Homeobox gene; *hox-B6*; Transcription factor; (*B. rerio*); (Zebrafish) (Molven, A. (1173) 102)

hox-B6
Homeobox gene; *hox-B5*; Transcription factor; (*B. rerio*); (Zebrafish) (Molven, A. (1173) 102)

HPLC
Phospho*enol*pyruvate carboxykinase; Isozyme; Metal activation; Iron; Manganese (Lambeth, D.O. (1156) 85)

Desaturation; Icosapentaenoic acid; Elongation; Linoleic acid; Linolenic acid; Polyunsaturated fatty acid; CaCo-2 cell line (Chen, Q. (1166) 193)

Macrophage; LDL; HDL; Prostaglandin; Atherosclerosis (Jambou, D. (1168) 115)

Complex glycosphingolipid; Polyglycosylceramide; Erythrocyte; FABMS; Purification; (Human) (Miller-Podraza, H. (1168) 330)

β-Thalassemia; Beta-mutation *in cis*; Beta-mutation *in trans*; DNA sequence (Divoky, V. (1180) 173)

HSP60
Lyme disease; Molecular mimicry; Antibody H9724; Chaperonin (Dai, Z. (1181) 97)

HSP70
Gene regulation; Heat-shock protein; Stress; (*Tetrahymena*) (Amaral, M.D. (1174) 133)

Hsp70 gene
MHC; Heat-shock protein; (Swine) (Dezeure, F. (1174) 17)

HT29
Intestinal epithelium; Drug transport; Partition coefficient (Wils, P. (1177) 134)

HTLV-I
HIV; Ganglioside; Glycosphingolipid (Matsuda, K. (1168) 123)

HuH-7
α-Fetoprotein (AFP); Monoclonal antibody; Immune complex; (Nude mouse) (Masuda, K. (1182) 128)

Human
Pyrroloquinoline quinone; Gas chromatography/mass spectrometry; Rat (Kumazawa, T. (1156) 62)

Fucosyltransferase; Hepatocyte; Lewis^x; Oligosaccharide (Jezequel-Cuer, M. (1157) 252)

Human chorionic membrane
Hyaluronate; Hyaluronate synthase; Interleukin 1; Protein kinase C (Ito, A. (1158) 91)

Human deoxycytidylate deaminase
Allosteric regulation; Transition state analog; Inhibition (Maley, G.F. (1162) 161)

Human elastin gene
Transcription; CAT assay; Transforming growth factor β; Tissue-specific regulation (Marigo, V. (1172) 31)

Human fetal lung
Surfactant synthesis; Cholinephosphate cytidylyltransferase; Glucocorticoid; cAMP; T_3 (Sharma, A. (1170) 237)

Human gastric lipase
Monoclonal antibody; Immunoaffinity chromatography; ELISA; Duodenum; Gastric lipase; Enzyme purification (Aoubala, M. (1169) 183)

Human gingival fibroblasts
Samarium-cobalt magnet; Cell growth; Energy metabolism, 0.2 T magnetic field (Yamaguchi, H. (1156) 302)

Human hemoglobin
Hemoglobin Ozieri; CpG; IPG; FAB mapping; Electrospray mass spectrometry (Ferranti, P. (1162) 203)

Human leukemia
Thymosin β_4; Actin-binding peptide; Cell cycle; Proliferation; Hepatectomy (Otero, A. (1176) 59)

Human liver
Flavin-containing monooxygenase; Purification; Antibody; Amino-terminal sequence; (Primate) (Sadeque, A.J.M. (1162) 127)

Human melanoma
Calcium; β-2-Adrenoceptor; Epinephrine (Schallreuter, K.U. (1160) 127)

Human skin fibroblast
Phytanic acid; Alpha-oxidation; Peroxisome (Singh, I. (1180) 221)

Human T-lymphoblast
Adenosine deaminase deficiency; Severe combined immunodeficiency disease; Deoxyadenosine toxicity; Cell swelling; Cytoskeleton; (CCRF-CEM cell) (Bagnara, A.S. (1180) 163)

Human urine
Galactocerebrosidase; Krabbe disease; Hydrophobic protein; Lysosomal enzyme (Chen, Y.Q. (1170) 53)

***hut* gene**
Dicarbonyl; Histidase; Methylglyoxal; Phenylglyoxal; (*S. griseus*) (White, P.J. (1163) 273)

Hyaluronate
Hyaluronate synthase; Interleukin 1; Protein kinase C; Human chorionic membrane (Ito, A. (1158) 91)

Proteoglycan; Bone; Vitamin D; Rickets; Chick (Dickson, I.R. (1181) 15)

Hyaluronate synthase
Hyaluronate; Interleukin 1; Protein kinase C; Human chorionic membrane (Ito, A. (1158) 91)

Hybrid cell
Monoacylglycerol acyltransferase; Lipid metabolism; Hepatoma/hepatocyte; Diacylglycerol; Permeabilized cell (Coleman, R.A. (1165) 306)

Hybrid enzyme
Chlorobium; ATPase, F-; Operon; (*E. coli*) (Xie, D.-L. (1172) 267)

Hybridization, in situ
Enterocyte; mRNA; Sodium ion/glucose transporter; Gene expression; Posttranscriptional regulation; (Ovine) (Freeman, T.C. (1146) 203)

Hybrid luciferase
Bacterial bioluminescence; Subunit interaction; Thermal stability; Fluorescence quenching (Li, Z. (1158) 137)

Hydrazine
Oxygen evolution; Hydroxylamine; S state; Absorption change; Mass spectrometry; (*Synechococcus* sp.) (Kretschmann, H. (1144) 331)

Hydrin
Arginine vasotocin; Aldosterone release; Arginine vasotocin-related peptide; (*Xenopus*) (Iwamuro, S. (1176) 143)

Hydrocortisone
Phospholipid; Fatty acid; Adrenoceptor; Epinephrine; (Heart muscle); (Rat) (Skúladóttir, G.V. (1178) 49)

Hydrogenase
Sulfate-reducing bacterium; EPR; Redox titration; Nickel; Iron-sulfur center (Franco, R. (1144) 302)

Hydrogenation
Platelet activation; Polyunsaturated fatty acid; Phospholipid; Plasma membrane (Joo, F. (1149) 231)

Hydrogen bonding
Papain; Cysteine proteinase; Cooperativity; Binding energy; Kinetic specificity; Enzyme inhibition (Liu, S. (1158) 264)

Hydrogen exchange
Monoclonal antibody; Fab fragment; Antigen induced stabilization; Antigen recognition (Rizzo, P. (1159) 169)

Hydrogen peroxide
Creatine kinase; Sulfhydryl group; Free radical; Superoxide anion radical; (Rat heart mitochondrion) (Yuan, G. (1140) 78)

Luciferase; Bioluminescence; Emission spectrum; Flavin mononucleotide; Peroxidase; Evolution (Watanabe, H. (1141) 297)

Cellobiose oxidase; Heme; Flavin; Lignocellulose; Oxidoreductase; (*P. chrysosporium*) (Henriksson, G. (1144) 184)

Stress protein; Macrophage; Heme oxygenase (Sato, H. (1148) 127)

Glucose transport; Sulfhydryl group; Phenylarsine oxide; Insulin; Cardiomyocyte (Fischer, Y. (1153) 97)

Ascorbic acid; Dehydroascorbic acid reductase; Se-dependent glutathione peroxidase; Glutathione transferase; Catalase; (Insect) (Summers, C.B. (1156) 235)

Kinetics; Deoxyhemocyanin; Subunit; (*P. interruptus*) (Andrew, C.R. (1163) 17)

Methane monooxygenase; Mechanism (Jiang, Y. (1163) 105)

Synaptosome; Calcium; Iron; (Guinea-pig cerebral cortex) (Zoccarato, F. (1176) 208)

Glutathione; Catalase; NADPH; Glucose-6-phosphate dehydrogenase; Oxidation; (Erythrocyte) (Scott, M.D. (1181) 163)

Ischemia; Reperfusion; Ischemia-reperfusion; Beta oxidation; Peroxisome; (Kidney) (Gulati, S. (1182) 291)

Hydrogen peroxide inactivation
HMG-CoA reductase; Hydroxyl radical; Thiol oxidation (Omkumar, R.V. (1156) 267)

Hydrogen sulfide : ferredoxin oxidoreductase
Assimilatory sulfate reduction; DNA sequence; Cyanobacterium; Sulfate reduction; (*Synechococcus*) (Gisselmann, G. (1144) 102)

Hydrolysis
Phosphodiester bond; Nuclease P1; DNA damage (Box, H.C. (1161) 291)

Phosphatidylcholine; Phosphatidylglycerol; Liposome; Gouy-Chapman equation; Surface pH (Grit, M. (1167) 49)

Hydropathy analysis
Alpha helix; α-Helical periodicity; Fourier transform; ATP synthase, F_1F_0-; Proton channel (Vik, S.B. (1140) 199)

Hydroperoxide
Low-density lipoprotein; Chemiluminescence; Atherosclerosis; Modified low-density lipoprotein; Lipid peroxidation (Cominacini, L. (1165) 279)

Hydroperoxide toxicity
Copper; Respiratory chain injury; (*E. coli* membranes) (Rodriguez-Montelongo, L. (1144) 77)

15-Hydroperoxyicosatetraenoic acid
Prostaglandin D_2; BHK-21 cell (Kiran Kumar, Y.V. (1167) 102)

Hydrophobic affinity partitioning
Conformational change; Pregnancy zone protein; α_2-Macroglobulin; Proteinase inhibition; (Human) (Jensen, P.E.H. (1164) 152)

Hydrophobicity
Cytochrome b_5; Site-directed mutagenesis; Lipid vesicle; Membrane binding (Tretyachenko-Ladokhina, V.G. (1153) 163)

Membrane fusion; Amphiphilic polypeptide; pH-dependence; Acidic amino acid; Alpha helix (Kono, K. (1164) 81)

Peptide synthesis; Amino terminal protecting group; α-Chymotrypsin; Partition parameter; Molecular ovality (Calvet, S. (1164) 189)

Pulmonary surfactant; Lipid–peptide interaction; (Rat) (McLean, L.R. (1166) 31)

Hydrophobic mismatch
Partition coefficient; Gel-fluid partitioning; Fluorescence quenching; Gramicidin A′ (Dibble, A.R.G. (1153) 155)

Hydrophobic molecule
Phosphatidylethanolamine; Lipid polymorphism; DSC; X-ray diffraction (Lohner, K. (1152) 69)

Hydrophobic peptide
Membrane perturbation; Pardaxin; Fluorescence spectroscopy; Membrane association; Binding; Peptide toxin; Model membrane (Saberwal, G. (1151) 43)

Hydrophobic protein
Pulmonary surfactant; Circular dichroism; Secondary structure; α-Helical content; Reconstitution (Pérez-Gil, J. (1168) 261)

Galactocerebrosidase; Krabbe disease; Lysosomal enzyme; Human urine (Chen, Y.Q. (1170) 53)

Hydroporphyrin
Raman spectroscopy; Isobacteriochlorin; Enzyme (Underwood-Lemons, T. (1157) 275)

Hydrostatic pressure
Butyrylcholinesterase; Soman; Arrhenius plot; Conformational change (Cléry, C. (1159) 295)

3-Hydroxyacyl-CoA dehydrogenase
Gastrin-binding protein; Enoyl-CoA hydratase; Trifunctional enzyme; Nucleotide sequence (Mantamadiotis, T. (1170) 211)

Hydroxyapatite growth
Aggrecan; Proteoglycan aggregates; Mineralization (Paschalakis, P. (1158) 129)

5-*exo*-Hydroxycamphor dehydrogenase
camD; Terpene alcohol dehydrogenase; Zinc-containing alcohol dehydrogenase; Nucleotide sequence; (*P. putida*) (Aramaki, H. (1174) 91)

Hydroxycholesterol
Cytochrome $P\text{-}450_{scc}$; Pregnenolone; Cholesterol; Cholesterol side-chain cleavage; (Placenta) (Tuckey, R.C. (1163) 185)

25-Hydroxycholesterol
Apolipoprotein B; Oleate; Cholesteryl ester; Fluvastatin; (HepG2 cell) (Furukawa, S. (1170) 32)

27-Hydroxycholesterol
27-Hydroxylase; Oxysterol; Diet; LDL (Hasan, S.Q. (1182) 299)

6β-Hydroxycorticosterone
Cytochrome *P*-450; Spontaneously hypertensive rat (SHR); Family 3A cytochromes *P*-450; Kidney; Corticosterone (Ghosh, S. (1182) 152)

N^4-Hydroxycytosine
Ab initio calculation; Tautomerism; Nucleic acid base analog; Base-pairing; Thymidylate synthase; Hydroxylamine mutagenesis (Leś, A. (1173) 39)

Hydroxy fatty acid
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α-Hydroxy fatty acid
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Hydroxylamine mutagenesis
Ab initio calculation; Tautomerism; N^4-Hydroxycytosine; Nucleic acid base analog; Basepairing; Thymidylate synthase (Leś, A. (1173) 39)

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11β-Hydroxylase
Cytochrome $P\text{-}450_{11\beta}$; *P*-450XIB1; Steroid; Substrate binding; Affinity labeling; Methyltrienolone (Ohnishi, T. (1161) 257)

21-Hydroxylase
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27-Hydroxylase
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Hydroxylation
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3-Hydroxy-3-methylglutaryl-CoA
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3-Hydroxy-3-methylglutaryl-CoA reductase
Acyl-CoA : cholesterol acyltransferase; Cholesterol metabolism; Acclimation temperature; (Carp liver) (Teichert, T. (1165) 211)

3-Hydroxy-3-methylglutaryl-coenzyme A synthase
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11β-Hydroxysteroid dehydrogenase
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Lipid peroxidation; Conjugated diene; Lung edema; Indomethacin; ETYA; Microsome; *tert*-Butyl hydroperoxide (Al-Mehdi, A.B. (1167) 56)

Mast cell; Prostaglandin; Hydroxy fatty acid; Arachidonic acid; Linoleic acid (Van Haaster, C.M.C.J. (1167) 147)

Passive sensitization; Allergen challenge; Membrane phospholipid; Peritoneal macrophage; (Rat) (M'Rini-Puel, C. (1167) 165)

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Icosatrienoic acid, -5(*Z*),11(*Z*),14(*Z*); Δ^6-Desaturation; Fatty acid; (*Mortierella alpina*) (Jareonkitmongkol, S. (1167) 137)

Icosatrienoic acid, -5(*Z*),11(*Z*),14(*Z*)
Icosatetraenoic acid, -5(*Z*),11(*Z*),14(*Z*),17(*Z*); Δ^6-Desaturation; Fatty acid; (*Mortierella alpina*) (Jareonkitmongkol, S. (1167) 137)

Identification
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ATP synthase; Oligomycin sensitivity conferring protein (OSCP); ATPase inhibitor protein; Subunit c; Proteolipid; DNA sequence; Protein sequence (Higuti, T. (1172) 311)

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IMCD cell
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Immunoglobulin-binding peptide
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Immunoglobulin G
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Immunoglobulin production
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Immunoglobulin superfamily
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Immunohistochemical localization
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Immunoliposome
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Immunology
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Immunoprecipitation
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Immunospecificity
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Immunostimulation
Immunostimulating peptide; Milk peptide; Binding site; Phagocytic cell (Jaziri, M. (1160) 251)

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Inborn error
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Mitochondrial fatty acid oxidation; Mitochondrial very long chain acyl-CoA dehydrogenase; Fibroblast (Bertrand, C. (1180) 327)

Mitochondrion; Lactic acidosis; Respiratory chain; Oxidative phosphorylation (Wanders, R.J.A. (1181) 219)

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Lipid peroxidation; Conjugated diene; Lung edema; Icosanoid; ETYA; Microsome; *tert*-Butyl hydroperoxide (Al-Mehdi, A.B. (1167) 56)

Aurothioglucose; Interleukin 1; Recombinant gene; Murine fibroblast cell; NF-kB; AP-1; (NIH 3T3 cell) (Williams, D.H. (1180) 9)

Induction
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Infant nutrition
Solution hybridization; LDL receptor mRNA; Apolipoprotein mRNA; Dietary fat; (Nonhuman primate) (Mott, G.E. (1169) 59)

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Infrared
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Bacteriochlorophyll; Reaction center; Special pair; Radical cation; (Photosynthetic bacterium) (Morita, E.H. (1142) 146)

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2-Thiocytosine; 5-Fluoro-2-thiocytosine; Tautomerism; Matrix isolation; Ab initio calculation (Rostkowska, H. (1172) 239)

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Inositol 1,4,5-trisphosphate; Calcium release; Microsome; Tetrahexyl ammonium ion; (Porcine cerebellum) (Sayers, L.G. (1152) 177)

Calcium ion pump; ATPase; Red blood cell; *tert*-Butyl hydroperoxide; Glutathione peroxidase; (Human) (Rohn, T.T. (1153) 67)

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Surfactant; Lung; Inactivation; Phospholipid; Pulmonary (Amirkhanian, J.D. (1165) 321)

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Sulfonic acid polymer; HIV-1; HIV-2; Reverse transcriptase (Tan, G.T. (1181) 183)

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ATPase, Ca^{2+}-; Red blood cell; Cadmium ion (Visser, G.J. (1152) 26)

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Respiratory chain; Diabetes; Gluconeogenesis; (Rat liver) (Owen, M.R. (1142) 11)

Polyphosphoinositide; Phospholipase C; Actinomadura (Ogawara, H. (1175) 289)

Inhibitor binding
Bovine α-chymotrypsin; Methionine oxidation; Catalytic property; Enzyme kinetics; Thermodynamics (Cutruzzolà, F. (1161) 201)

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ATPase, Na^+/K^+-; Cytosol; Protein purification; (Rat brain) (Chandra, S. (1144) 33)

Inhibitory effect
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Inhibitory site
QH_2 : cytochrome *c* reductase; Antimycin A; 3-Nitrosalicyl *N*-alkylamide (Xu, J.-x. (1142) 83)

Inhomogeneous broadening
Protein denaturation; Guanidine hydrochloride; Cytochrome *c*; Fluorescence line narrowing; Energy selection (Logovinsky, V. (1161) 149)

Initiation complex
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cDNA; eIF4A; Translation; Nucleotide sequence; (Rice) (Nishi, R. (1174) 293)

Initiation zone
Origin; Transcript; cDNA; DNA replication; (Mammalian) (Wu, C. (1174) 258)

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Mitochondrion; NAD(P)H dehydrogenase; Enzyme purification; Protein purification; Respiratory chain; Rotenone insensitivity; (Plant) (Rasmusson, A.G. (1141) 107)

Inorganic phosphate
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Ligand binding; Ferrous hemoglobin derivative; Kinetics; Thermodynamics; Tertiary conformational alteration (Coletta, M. (1162) 309)

Inositol homeostasis
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Inositol phosphate
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Inositol trisphosphate
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Inositol 1,4,5-trisphosphate
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***myo*-Inositol monophosphatase**
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***myo*-Inositol-1-phosphatase**
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Insect
Lepidoptera; Amino acid transport; Potassium; Symport; Cotransport; Cation dependence (Hennigan, B.B. (1148) 209)

Lepidoptera; Midgut; Cotransport; Potassium; Amino acid transport (Hennigan, B.B. (1148) 216)

Insecticide
Fenvalerate; Fluorescence polarization; DSC; Membrane fluidity (Sarkar, S.N. (1147) 137)

In situ hybridization
Acute liver damage; Liver fibrosis; Carbon tetrachloride model; Fibronectin, ED-A positive; mRNA (Odenthal, M. (1181) 266)

Ins(1,4,5)P_3 receptor
Radioligand binding; Heparin; Magnesium; (Rat cerebellum); (Bovine adrenal cortex) (White, A.M. (1175) 307)

Insulin
Epitrochlearis muscle; Hypoxia; Muscle contraction; 3-*O*-Methylglucose (Ren, J.-M. (1145) 199)

Phosphate transport; Sodium ion dependent transport; (Hepatocyte) (Butterworth, P.J. (1148) 117)

Glucose transport; Sulfhydryl group; Phenylarsine oxide; Hydrogen peroxide; Cardiomyocyte (Fischer, Y. (1153) 97)

Lactate; Bile; Acinus; (Isolated rat liver) (Villanueva, G.R. (1158) 8)

Diabetes; Streptozotocin; Fish oil; Triacylglycerol; Cholesterol; Glucose; Glucose-6-phosphate dehydrogenase; (Rat) (Baltzell, J.K. (1167) 197)

Palmitoyl-CoA synthetase; Hepatoma cell; Isolated hepatocyte; 3-Thia fatty acid; Dexamethasone; (Rat) (Wu, P. (1170) 118)

Acyl-CoA oxidase; Induction; Thia fatty acid; Dexamethasone (Sørensen, H.N. (1171) 263)

Gene regulation; Glucocorticoid (Gadson, Jr., P. (1173) 22)

Staurosporine; H-7; GTPγS; (Rat adipocyte) (Yano, Y. (1176) 327)

Differentiation; Glucose; Glycolysis; Gluconeogenesis; Proximal tubule cell; (Rabbit) (Courjault, F. (1177) 147)

Platelet-derived growth factor; Glucose transport; Mitogen; (Mouse fibroblast) (Merrall, N.W. (1177) 191)

Gene expression; Protein phosphatase; Okadaic acid; Signal transduction; cyclic AMP response element (Morrison, M.D. (1178) 135)

Growth factor; Ribosomal protein; Ribosomal protein S6; Protein kinase; cyclic-AMP-dependent protein kinase (Donella-Deana, A. (1178) 189)

Skeletal muscle; Glucose metabolism; Glycogen; Ethanol (Cook, E.B. (1180) 207)

Insulin deficiency
Apolipoprotein; Isoform; Diabetic; Fasting; [^{3}H]Leucine; (Rat) (Callow, M.J. (1168) 271)

Insulin-like growth factor
IGF-II; cDNA; mRNA; (Sheep) (Demmer, J. (1173) 79)

Insulin mediator
Anti-CRD antibody; Crossreacting determinant; Glycosylphosphatidylinositol anchor; Membrane dipeptidase (Broomfield, S.J. (1145) 212)

Insulin receptor
Receptor function; Mutational analysis; Mutagenesis; Signaling pathway (Tavaré, J.M. (1178) 21)

Insulin receptor gene
Allele-specific expression; NIDDM (Imano, E. (1181) 131)

Insulin receptor substrate 1
Insulin signaling; Adipocyte, 3T3-L1 (Keller, S.R. (1172) 323)

Insulin release
Adrenaline; Galanin; Membrane potential; (Pancreatic B-cell) (Drews, G. (1175) 214)

Sodium nitroprusside; Calcium-45 uptake; Calcium-45 outflow; Rubidium-86 outflow; Calcium flux; Potassium channel; (Rat pancreatic islet cell) (Antoine, M.-H. (1175) 293)

Insulin resistance
Phospholipase C; Non-insulin-dependent diabetes mellitus (NIDDM); Phosphatidylinositol 4,5-bisphosphate; Pioglitazone (Bleasdale, J.E. (1181) 240)

Insulin secretion
Calcium; Mitochondrial dehydrogenase (Rutter, G.A. (1175) 107)

Okadaic acid; Protein phosphatase; (Islet of Langerhans) (Ratcliff, H. (1175) 188)

Arachidonic acid; Islet of Langerhans; Norepinephrine; (Rat) (Band, A.M. (1176) 64)

Insulin signaling
Insulin receptor substrate 1; Adipocyte, 3T3-L1 (Keller, S.R. (1172) 323)

Integration
ATPase, H^+-; Microsome; Translocation; Invertase; (Yeast); (*N. crassa*) (Addison, R. (1152) 119)

Integrin
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Interaction
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CCMV; Coat; Protein; N-terminal; Nucleotide (Wolfs, C.J.A.M. (1172) 1)

Intercellular adhesion molecule 1
Atherosclerosis; Flow chamber; Vascular cell adhesion molecule 1; Myeloperoxidase; Rose Bengal (Jeng, J.-R. (1178) 221)

Intercellular contact
Cell electrofusion; Membrane electroporation; Cell deformation; Membrane fusion (Abidor, I.G. (1152) 207)

Interdigitated lipid phase
Phosphatidylethanolamine; Phase transition; Crosslinking; Fluorescence anisotropy, steady-state; Parinaric acid (Harrison, M.M. (1149) 292)

Interdigitation
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Interfacial activation
Lysophospholipase; P388D_1 cell; Substrate specificity; Kinetic analysis (Stafford, R.E. (1167) 43)

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Interferon, alpha
Interferon receptor; Protein crosslinking; cDNA sequence (Lim, J.-K. (1173) 314)

Interferon γ
Fibroblast; Secreted protein; Aging (Eleftheriou, C.S. (1180) 304)

Orbital fibroblast; Fibronectin; Collagen; Cytokine (Higgins, P.J. (1181) 23)

Two-dimensional gel electrophoresis; Regulation; Dermal fibroblast; (Human) (Smith, T.J. (1181) 300)

Interferon-n-α receptor
Gene dosage; Down's syndrome (Gerdes, A.-M. (1181) 135)

Interferon receptor
Interferon, alpha; Protein crosslinking; cDNA sequence (Lim, J.-K. (1173) 314)

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Lectin; *Euphorbia marginata*; Mitogen; Hemagglutinin; Tumor necrosis factor (Stirpe, F. (1158) 33)

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Hyaluronate; Hyaluronate synthase; Protein kinase C; Human chorionic membrane (Ito, A. (1158) 91)

Acute-phase reactant; Serum amyloid P; Interleukin 6 (Zahedi, K. (1176) 162)

Fatty acid; Monocyte; (U937 cell); (Human) (Baldie, G. (1179) 125)

Aurothioglucose; Indomethacin; Recombinant gene; Murine fibroblast cell; NF-kB; AP-1; (NIH 3T3 cell) (Williams, D.H. (1180) 9)

Cartilage; Chondrocyte; Cytokine; Arthritis; Macrophage colony-stimulating factor (Campbell, I.K. (1182) 57)

Interleukin 1 receptor
Immunoglobulin superfamily; Cell proliferation; T cell; Cytokine; Cell cycle; (Human) (Tominaga, S.-i. (1171) 215)

Cell growth; Cell cycle; Immunoglobulin superfamily; Glycosylation; Protein secretion (Takagi, T. (1178) 194)

Cytokine; Preterm labor; Fetal membrane; Prostaglandin (Bry, K. (1181) 31)

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Etoposide; Melanoma cell; DNA damage; DNA repair (Monti, E. (1180) 231)

Interleukin 2
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Interleukin 3
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Interleukin 4
Cytokine; Lymphocyte; Intestine; (Pig) (Bailey, M. (1171) 328)

Interleukin 6
Acute-phase reactant; Serum amyloid P; Interleukin 1 (Zahedi, K. (1176) 162)

Interleukin 8
Receptor; G protein; Signal transduction; Neutrophil; Chemotaxis (Barnett, M.L. (1177) 275)

Intermembrane space
Creatine kinase; Pyruvate kinase; Compartmentation; Adenine nucleotide; (Rat heart mitochondrion) (Gellerich, F.N. (1140) 327)

Mitochondrion; Cytochrome *c*; Ionic strength; Membrane fusion; Electron transport (Cortese, J.D. (1142) 194)

Mitochondrion; Dextran; Adenylate kinase; Porin; Compartmentation (Gellerich, F.N. (1142) 217)

Mitochondrion; Outer mitochondrial membrane; Dextran; Hexokinase; Compartmentation; Contact site (Wicker, U. (1142) 228)

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Interstitial fluid
Reverse cholesterol transport; Prenodal peripheral lymph; Apo A-I-containing subpopulation; Two-dimensional electrophoresis (Asztalos, B.F. (1169) 301)

Intestinal apo A-IV
Apolipoprotein A-IV; mRNA; Serum triacylglycerol; Triacylglycerol; Fat absorption; Fat secretion; (Rat pups) (Sato, M. (1165) 93)

Intestinal brush border membrane
Polyunsaturated (essential) fatty acid; Membrane fluidity; Lipid composition; 5′-Nucleotidase (Daveloose, D. (1166) 229)

Intestinal development
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Intestinal epithelium
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Intestinal morphology
Cholesterol; Fatty acid; Polyunsaturated fatty acid; Nutrient transport; Infant feeding (Thomson, A.B.R. (1170) 80)

Intestinal perfusion
β-Carotene; Portal vein; Retinoic acid; Polar metabolite (Wang, X.-D. (1167) 159)

Intestinal peroxidase
Nonsteroidal antiinflammatory drug; Eosinophil peroxidase; Lactoperoxidase; Horseradish peroxidase; Indomethacin; Acetylsalicylic acid (Chatterjee, R. (1161) 168)

Intestinal transport
Riboflavin transport; Basolateral membrane; Water-soluble micronutrient transport; (Rabbit small intestine) (Said, H.M. (1148) 263)

Sodium ion–proton exchanger; Kinetics; Expression (Honda, T. (1150) 199)

Intestine
Cholesterol absorption; Cholesterol synthesis; Hyporesponsivity; Hyperresponsivity; (Human) (Safonova, I.G. (1166) 313)

Group II phospholipase A_2; Expression; (Human) (Minami, T. (1170) 125)

Carnitine; Uptake; Retention; Development (Gross, C.J. (1170) 265)

Interleukin 4; Cytokine; Lymphocyte; (Pig) (Bailey, M. (1171) 328)

Intracellular alkalinization
Tumor necrosis factor; Granulocyte-macrophage colony-stimulating factor; Granulocyte colony-stimulating factor; Tyrosine phosphorylation; (Human neutrophil) (Yuo, A. (1156) 197)

Intracellular calcium
Ehrlich ascites tumor cell; Tumor cell; Volume regulation (Thomas-Young, R.J. (1146) 81)

Intracellular calcium ion
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Adrenal medulla; Catecholamine secretion; Calcium ion, intracellular; Potassium ion channel (González-García, C. (1177) 99)

Intracellular calcium regulation
Calcium store; Inositol 1,4,5-trisphosphate; Mast cell; RBL cell (Mohr, F.C. (1147) 105)

Calcium store; Inositol trisphosphate; Mast cell; RBL cell (Hershey, P.E.C. (1147) 115)

Intracellular pH
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Ammonium transport; pH, intracellular; Potassium ion channel; Proximal tubule; BCECF; (Rat) (Chen, J.-G. (1149) 299)

Sodium–hydrogen ion exchange; Lithium–hydrogen ion exchange; Amiloride derivative; Thrombin activation; (Platelet) (Gende, O.A. (1152) 219)

Intracellular processing
α_1-Microglobulin; Bikunin; Nycodenz gradient; Proprotein; Subcellular vesicle (Bratt, T. (1157) 147)

Intracellular signalling
Phosphatidylinositol(3,4,5)-triphosphate; Inositol lipid; PI-3 kinase; Growth factor; Protein tyrosine kinase; G protein (Stephens, L.R. (1179) 27)

Intracellular transport
Lipoprotein; Hepatic uptake; Liver; (Trout) (Gjøen, T. (1169) 225)

Intrachannel velocity
Doppler scattering; Gramicidin; Velocity, ion; Laser Doppler velocity (Macias, F. (1153) 331)

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Intramolecular electron exchange
Electron exchange; Ferredoxin II; (*D. desulfuricans* Norway) (Blanchard, L. (1144) 125)

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Cobalamin; Receptor; Membrane; Visceral yolk sac; Placenta (Ramanujam, K.S. (1146) 243)

Intrinsic fluorescence
Surfactant protein A; Collagenase resistant fragment; Calcium ion binding (Sohma, H. (1159) 150)

Intron
Hemoglobin; Gene structure; (*P. caudatum*) (Yamauchi, K. (1171) 81)

Barley; Antithrombin; Homology; (*H. vulgare*) (Rasmussen, S.K. (1172) 151)

Invertase
ATPase, H^+-; Microsome; Translocation; Integration; (Yeast); (*N. crassa*) (Addison, R. (1152) 119)

Invertebrate muscle
Phosphoinositide; Muscle fiber; Phospholipid; (Barnacle) (Compagnon, D. (1167) 94)

In vitro import
Mitochondrial processing; Proteinase; Processing enhancing protein; Nuclear-encoded protein; Precursor protein; (Plant mitochondrion) (Eriksson, A.C. (1140) 208)

In vitro translation
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Rubisco activase; cDNA sequence; (*Cucumis sativus*) (Preisig-Müller, R. (1171) 205)

Antithrombin III; cDNA cloning; RNA nuclease-protection assay (Amrani, D.L. (1171) 239)

Iodide
EDTA; Horseradish peroxidase; NMR (Modi, S. (1162) 121)

Ion channel
Chloroplast; Thylakoid membrane; Membrane potential; Electron transport (Enz, C. (1143) 67)

Glycopeptide; Lipid bilayer; Helix orientation; Lectin; Fluorescence (Otoda, K. (1145) 33)

α-Toxin; Monoclonal antibody; Erythrocyte; Planar lipid bilayer membrane; (*Staphylococcus aureus*) (Krasilnikov, O.V. (1182) 94)

Ion channel forming peptide
Conformational transition; Alpha helix; Lipid–peptide interaction; Beta structure; Liposome (Lee, S. (1151) 76)

Ion channel selectivity
Brown adipose tissue; Potassium ion channel; Potassium ion conductance; Delayed rectifier; Tetraethylammonium; (Rat) (Ruß, U. (1153) 249)

Ion current
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Ion-exchange chromatography
ATPase, Na^+/K^+-; Electrogenic activity; Fluorescence; Proteoliposome; Protein orientation (Ivashchuk-Kienbaum, Y.A. (1148) 321)

Ion flux
Liposome; Membrane potential; Permeability; Fluorescent probe; PBFI; Oxonol; Pyranine (Venema, K. (1146) 87)

Ionic / nonionic detergent
p-Nitrophenyl acyl ester; Critical micellar concentration (Bonelli, F.S. (1166) 92)

Ionic strength
Mitochondrion; Cytochrome *c*; Intermembrane space; Membrane fusion; Electron transport (Cortese, J.D. (1142) 194)

Creatine kinase binding; Mitochondrial membrane; Adsorption; Binding model; Essential amino acid (Fedosov, S.N. (1153) 322)

Ionizable group
Sulfhydryl group; Hemoglobin; Kinetics; Tertiary conformation (Okonjo, K.O. (1159) 303)

Ionization
Proteinase omega; pH profile; Steady-state kinetics; (*C. papaya*) (Sumner, I.G. (1164) 243)

Ionophore
Paliurine B; ROESY spectrum; Distance-geometry calculation; Restrained energy minimization; Rotating frame nuclear Overhauser effect (Yu, C. (1156) 334)

Ionophore A23187
Alkaline earth ion; fMet-Leu-Phe; Responsiveness (Boonen, G.J.J.C. (1175) 155)

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Ionophore property
Porin; OmpA; (*E. coli*) (Saint, N. (1145) 119)

Ion selectivity
Monolayer; Valinomycin; Complexation (Zaitsev, S.Y. (1148) 191)

NMR, ^{23}Na-; Potassium ion atomic absorption; Bacterial membrane; Monensin; 4-Chorophenylurethane-monensin; (*S. faecalis*); (*E. hirae*) (Rabaste, F. (1179) 166)

Ion-sensitive microelectrode
Ion transport; Isotope flux; (Rabbit caecum) (Ferreira, K.T.G. (1175) 27)

Ion translocation
Phase separation; Calcium ion concentration; Gramicidin; Bimolecular lipid membrane; Single-channel current (Mittler-Neher, S. (1152) 259)

Ion transport
ATPase, Na^+/K^+-; Reaction sequence; Oligomycin; Kinetics; Conformational change (Pratap, P.R. (1151) 89)

Ion-sensitive microelectrode; Isotope flux; (Rabbit caecum) (Ferreira, K.T.G. (1175) 27)

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Iron
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Hydrogen peroxide; Synaptosome; Calcium; (Guinea-pig cerebral cortex) (Zoccarato, F. (1176) 208)

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Microspectrofluorometry; Anthracycline; (Tumor cell) (Fiallo, M. (1177) 236)

Iron-binding protein
Oxygen radical; Antioxidant; Iron oxidizing protein (Gutteridge, J.M.C. (1156) 144)

Antioxidant; Oxygen radical; Iron-oxidizing protein; (Human plasma) (Gutteridge, J.M.C. (1159) 248)

Transferrin; cDNA sequence; Horse; (*E. caballus*) (Carpenter, M.A. (1173) 230)

Iron chelation
EPR; Iron metabolism; Iron overload (Simpson, R.J. (1156) 19)

Iron-core
Ferritin; Plant ferritin; Iron storage; Phosphorus storage; (pea seed) (Wade, V.J. (1161) 91)

Iron-induced membrane lesion
Animal tissue; EPR; Mononitrosyl iron complex; Nitric oxide (Kubrina, L.N. (1176) 240)

Iron–iron interaction
Apoferritin; X-ray absorbance; Chemical modification; (Horse spleen) (Strange, R. (1164) 331)

Iron metabolism
EPR; Iron chelation; Iron overload (Simpson, R.J. (1156) 19)

Iron overload
EPR; Iron metabolism; Iron chelation (Simpson, R.J. (1156) 19)

Iron-oxidizing protein
Oxygen radical; Antioxidant; Iron-binding protein (Gutteridge, J.M.C. (1156) 144)

Antioxidant; Oxygen radical; Iron-binding protein; (Human plasma) (Gutteridge, J.M.C. (1159) 248)

Iron protein
Nitrogenase; Iron-sulfur cluster; EPR; Magnetic circular dichroism (Onate, Y.A. (1164) 113)

Iron storage
Ferritin; Plant ferritin; Iron-core; Phosphorus storage; (pea seed) (Wade, V.J. (1161) 91)

Iron-sulfur center
Hydrogenase; Sulfate-reducing bacterium; EPR; Redox titration; Nickel (Franco, R. (1144) 302)

Iron-sulfur cluster
Iron-sulfur protein; Resonance Raman spectroscopy; Rieske-type cluster (Kuila, D. (1140) 175)

High potential iron-sulfur protein; Molecular modeling; EPR (Adman, E.T. (1142) 93)

Pyruvate oxidation; Hyperthermophile; Fermentation; *(P. furiosus)* (Blamey, J.M. (1161) 19)

Nitrogenase; Iron protein; EPR; Magnetic circular dichroism (Onate, Y.A. (1164) 113)

Iron-sulfur protein
Iron-sulfur cluster; Resonance Raman spectroscopy; Rieske-type cluster (Kuila, D. (1140) 175)

Ferredoxin; Nucleotide sequence; (*C. pasteurianum*) (Meyer, J. (1174) 108)

Irreversible denaturation
DSC; Thermodynamics; EPSP synthase (Merabet, E.K. (1161) 272)

Irreversible inactivation
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Irreversible modification
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Mitochondrion; Respiration; Control coefficient; Heart (Borutaité, V. (1142) 175)

NADH-fluorescence; Fatty acid; Oxygen radical; (Rat heart) (Hulsmann, W.C. (1181) 273)

Calpain; Reperfusion; Calcium; Myocardium (Yoshida, K.-i. (1182) 215)

Reperfusion; Ischemia-reperfusion; Beta oxidation; Hydrogen peroxide; Peroxisome; (Kidney) (Gulati, S. (1182) 291)

NMR, ^{31}P-; Substrate depletion; Magnesium ion deficit; (Heart); (Muscle) (Altura, B.M. (1182) 329)

Ischemia-reperfusion
Kidney zone; Antioxidant; Oxidative stress; Chemiluminescence (Gonzalez-Flecha, B. (1157) 155)

Ischemia; Reperfusion; Beta oxidation; Hydrogen peroxide; Peroxisome; (Kidney) (Gulati, S. (1182) 291)

Ischemic injury
Renal transport; Organic cation; Tetraethylammonium; Reperfusion; Brush-border membrane (Maeda, S. (1150) 103)

Islet cell
Nitric oxide donor; Cytotoxicity; Rat; Macrophage; Tumor cell (Kröncke, K.-D. (1182) 221)

Islet of Langerhans
Arachidonic acid; Insulin secretion; Norepinephrine; (Rat) (Band, A.M. (1176) 64)

Isobacteriochlorin
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Isocitrate lyase
Glyoxylate cycle; Malate synthase (Holmes, R.P. (1158) 47)

Isoelectric focusing
Proapolipoprotein AI; Catabolism; Fractional catabolic rate; HDL; Isoprotein; Turnover study (Saku, K. (1167) 257)

Isoenzyme
Lipase; Enzyme purification; Enzyme characterization; *Candida cylindracea*; *Candida rugosa* (Rúa, M.L. (1156) 181)

ATPase, Na^+/K^+-; Ouabain affinity; Sodium ion sensitivity; α-Linolenic acid; Brain membrane; Diet; (Weaned rat) (Gerbi, A. (1165) 291)

cyclic AMP; Protein kinase; Enzyme activation; Enzyme inhibitor (Døskeland, S.O. (1178) 249)

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Annexin V; Primary structure; *N*-Acetylation; Protein kinase C; Phosphorylation (Learmonth, M.P. (1160) 76)

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Apolipoprotein; Insulin deficiency; Diabetic; Fasting; [^{3}H]Leucine; (Rat) (Callow, M.J. (1168) 271)

FGF receptor-1; Gene expression; (Rat) (Yazaki, N. (1172) 37)

Protein phosphatase; cDNA sequence; Amino acid sequence; Chromosomal localization; (Human) (Barker, H.M. (1178) 228)

Isolated enterocyte
Polyamine; L-Arginine; L-Glutamine; Ornithine decarboxylase; (Newborn pig) (Blachier, F. (1175) 21)

Isolated heart
Xanthine oxidoreductase; Homogenate (Janssen, M. (1156) 307)

Isolated hepatocyte
Palmitoyl-CoA synthetase; Hepatoma cell; 3-Thia fatty acid; Dexamethasone; Insulin; (Rat) (Wu, P. (1170) 118)

ATP, extracellular; Cell death; Protein synthesis (Tinton, S.A. (1176) 1)

Isolation
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Isomer
Cardiolipin; Fat deficiency; Fatty acid; Linoleic acid; Linolenic acid; Positional distribution; (Rat) (Wolff, R.L. (1168) 285)

Δ^5-Isomerase
5-Cholesten-3β-ol; 5-Cholesten-3-one; 4-Cholesten-3-one; Monolayer membrane; Cholesterol oxidase (Slotte, J.P. (1145) 243)

Isomerization
RNAase T_1; Relaxation kinetics; Temperature jump; Conformational change; Nucleotide binding (Walz, Jr., F.G. (1159) 327)

Isonitrile
Lipophilic cationic probe; Organotechnetium compound; Valinomycin; Membrane potential; Large unilamellar vesicle; Radionuclide (Chernoff, D.M. (1147) 262)

Isoprene
Cholesterol; Dolichyl monophosphate; Polyisoprenoid; Liver; Brain; (Rat) (Löw, P. (1165) 102)

Isoprenoid
Dolichol; Coenzyme Q; Ubiquinone; Liver; Cholesterol (Keller, R.K. (1170) 204)

Isoprotein
Proapolipoprotein AI; Catabolism; Fractional catabolic rate; HDL; Isoelectric focusing; Turnover study (Saku, K. (1167) 257)

Isoschizomer
Restriction enzyme; (*B. stearothermophilus*) (Lobos, C. (1171) 295)

Isotope flux
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Collagen turnover; Turnover rate; Collagen type (Rucklidge, G.J. (1156) 57)

Isotype
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Protein kinase C; nPKC; Pseudosubstrate; Calcium; Superoxide anion generation; p47-phox; Neutrophil (Majumdar, S. (1176) 276)

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Acid phosphatase; ACP1; Kinetics; Effector; Parasteric binding; Phenotypic difference (Dissing, J. (1162) 275)

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Juvenile hormone esterase
Juvenile hormone; Posttranslational modification; Isoform; Peptide mapping; Glycosylation (Jones, G. (1161) 235)

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Leukotriene D_4 receptor
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Lignoceroyl-CoA ligase
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Desaturation; Icosapentaenoic acid; Elongation; HPLC; Linoleic acid; Polyunsaturated fatty acid; CaCo-2 cell line (Chen, Q. (1166) 193)

Cardiolipin; Fat deficiency; Fatty acid; Isomer; Linoleic acid; Positional distribution; (Rat) (Wolff, R.L. (1168) 285)

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Plasminogen; Poly(ethylene glycol); Long-circulating liposome; Cryptosome; Protein binding; Drug targeting; Biodistribution (Blume, G. (1149) 180)

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Ganglioside GM1; Biodistribution; Neoglycolipid (Park, Y.S. (1166) 105)

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Liquid-expanded state
Abscisic acid; Lipid monolayer; Liquid-condensed state; Phase transition; Surface pressure (Bürner, H. (1150) 165)

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Lithium transport
Homeostasis; Inositol homeostasis; Alkaline phosphatase; Acid phosphatase; *myo*-Inositol-1-phosphatase; 5′-Nucleotidase; Kinetic mechanism; Lithium inhibition (Gani, D. (1177) 253)

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Local structure
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Localized energy coupling
Chloroplast; Photophosphorylation; ATPase, thylakoid; Local anesthetic (Laasch, H. (1140) 251)

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Long-circulating liposome
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Liposome; Thermosensitive liposome; Ganglioside GM1; Drug delivery system; Hyperthermia; Doxorubicin; Colon 26 carcinoma (Maruyama, K. (1149) 209)

Long range electron transfer
Electron transfer; Alpha helix; Pulse radiolysis; Circular dichroism; Leucine zipper peptide (Lee, H. (1159) 286)

Long-term action
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Luciferin
Luciferase; Firefly; Bioluminescence; Coenzyme A; Overexpression vector (Devine, J.H. (1173) 121)

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Lysyl oxidase
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LDL; Acetylated LDL; Liver cell; Felodipine; Calcium ion antagonist (Gustafson, S. (1181) 45)

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Macrophage cell line
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Malarial pigment
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Maltotetraose-forming amylase
D-Glyceraldehyde-3-phosphate dehydrogenase; Asynchronous unfolding; Denaturation; Maltotetraose; (*Alcaligenes*) (He, R.-Q. (1163) 315)

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Phospho*enol*pyruvate carboxykinase; HPLC; Isozyme; Metal activation; Iron (Lambeth, D.O. (1156) 85)

Manganese catalase
Manganese; Difference spectroscopy; Catalase; Photosystem II (Wells, W. (1144) 346)

Manganese cluster
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Calcium store; Intracellular calcium regulation; Inositol trisphosphate; RBL cell (Hershey, P.E.C. (1147) 115)

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Melanin biosynthesis
Dopa; Topa; Tyrosinase; Melanin; Melanogenesis (Rodríguez-López, J.N. (1160) 221)

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Melanogenesis
Dopa; Topa; Tyrosinase; Melanin; Melanin biosynthesis (Rodríguez-López, J.N. (1160) 221)

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Membrane channel, voltage dependent
VDAC; Mitochondrion; Membrane channel modulation; Modulator protein (Holden, M.J. (1144) 396)

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Membrane domain
Membrane; Fluorescence; Phospholipid bilayer (Stillwell, W. (1146) 136)

Membrane dynamics
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Membrane electroporation
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Cell electrofusion; Membrane electroporation; Intercellular contact; Cell deformation (Abidor, I.G. (1152) 207)

Amphiphilic polypeptide; pH-dependence; Acidic amino acid; Alpha helix; Hydrophobicity (Kono, K. (1164) 81)

Membrane intrinsic curvature
Virus replication inhibitory peptide; Lipid polymorphism; Anti-viral agent; Membrane fusion (Epand, R.M. (1152) 128)

Membrane–lipid interaction
Tamoxifen; Anti-cancer drug; Breast cancer; Membrane fluidity; Fluorescent probe (Custódio, J.B.A. (1150) 123)

HydroxyTamoxifen; Anti-cancer drug; Antiestrogen; Breast cancer; Membrane fluidity; Fluorescent probe (Custódio, J.B.A. (1153) 308)

Membrane–melittin interaction
Reversed micelle; Melittin folding; Frequency domain fluorometry; Fluorometry; Lifetime distribution (Bismuto, E. (1146) 213)

Membrane multilayer
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Membrane, outer
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Membrane permeability
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Membrane perturbation
Hydrophobic peptide; Pardaxin; Fluorescence spectroscopy; Membrane association; Binding; Peptide toxin; Model membrane (Saberwal, G. (1151) 43)

Membrane phospholipid
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Membrane potential
Carotenoid band shift; Photosynthetic bacterium; Light harvesting complex; (*Rhodospirillum*) (Matsuura, K. (1140) 293)

Reaction center; Cytochrome *c*; Electron transfer; Redox potential; Heme; (*Rs. molischianum*) (Nagashima, K.V.P. (1140) 297)

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Light harvesting complex; Electrochromism; Carotenoid; Liposome; (Photosynthetic bacteria); (*Rb. capsulatus*) (Goodwin, M.G. (1144) 191)

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Surface potential; Cation transport kinetics; Cotransport (Borst-Pauwels, G.W.F.H. (1145) 15)

Liposome; Ion flux; Permeability; Fluorescent probe; PBFI; Oxonol; Pyranine (Venema, K. (1146) 87)

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Membrane proliferation
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Membrane recycling
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Membrane-spanning peptide
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Membrane structure
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Membrane surface
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Membrane surface roughness
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Membrane transport
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Cytochrome oxidase; X-ray absorption spectroscopy; EXAFS (George, G.N. (1142) 240)

Menaquinone
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Neutral glycosphingolipid; Ceramide; Phytosphingosine; α-Hydroxy fatty acid; Genital tract; (Human female) (Takamatsu, K. (1165) 177)

6-Mercaptopurine
Mycophenolic acid; Lymphoblastic leukemia; Cytotoxicity (Stet, E.H. (1180) 277)

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Mesangial cell
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Mesophase formation
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Metabolic pathway
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Metabolic state
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Glutamine; Glycine; (Rat hepatocyte) (Vincent, N. (1175) 13)

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Metabolism control
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Metal activation
Phospho*enol*pyruvate carboxykinase; HPLC; Isozyme; Iron; Manganese (Lambeth, D.O. (1156) 85)

Metal chelator
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Metalloproteinase
Enzyme purification; Myosin; Cobalt ion; Zinc ion; (Squid muscle) (Okamoto, Y. (1161) 97)

Endothelin-converting enzyme; Endothelin; (Porcine lung membrane) (Sawamura, T. (1161) 295)

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Methane monooxygenase
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Methionine
Methionine sulfoxide; Oxidation; Dithiothreitol; Histidine; Hydroxyl radical (Schöneich, C. (1158) 307)

Methionine analog
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Methionine oxidation
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Methionine sulfoxide
Methionine; Oxidation; Dithiothreitol; Histidine; Hydroxyl radical (Schöneich, C. (1158) 307)

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Methoxychlor
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6-Methoxy-1-(3-sulfonatopropyl)quinolinium (SPQ)
Cystic fibrosis transmembrane conductance regulator (CFTR); Chloride ion permeability; Cystic fibrosis; Fluorescence imaging; L cell (Dho, S. (1152) 83)

Methylation
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Phospholipid methylation; Brain membrane; Kinetics; Phosphatidylethanolamine methylation; Monomethylphosphatidylethanolamine; Dimethylphosphatidylethanolamine (Reitz, R.C. (1166) 139)

3-Methylcholanthrene
Glutathione *S*-transferase; Induction; Subunit; Ethoxyquin; Phenobarbital (Derbel, M. (1158) 175)

Primary culture; Glutathione *S*-transferase; Gene expression; Phenobarbital; β-Naphthoflavone; (Hepatocyte); (Rat); (Serum-free medium) (Dwivedi, R.S. (1174) 43)

***N*-Methyl-D-aspartate recepter 1 gene**
Transcription start site; Promoter; Housekeeping gene (Bai, G. (1152) 197)

Methylenetetrahydrofolate
Transcription; Cell cycle; Posttranscriptional regulation; Mitogen (Peri, K.G. (1171) 281)

Methylenetetrahydrofolate dehydrogenase-methenyltetrahydrofolate cyclohydrolase
Gene characterization; Bifunctional protein; (*Drosophila*) (Price, B.D. (1173) 94)

3-*O*-Methylglucose
Epitrochlearis muscle; Hypoxia; Insulin; Muscle contraction (Ren, J.-M. (1145) 199)

Methylglyoxal
Dicarbonyl; Histidase; *hut* gene; Phenylglyoxal; (*S. griseus*) (White, P.J. (1163) 273)

O^6-Methylguanine-DNA methyltransferase
DNA repair; Gene induction (Fritz, G. (1171) 35)

Methylisocyanate
Carbamylation; Actin polymerization (Kuckel, C.L. (1162) 143)

Methylmercaptopurine ribonucleoside
6-Mercaptopurine; 5-Phosphoribosyl 1-pyrophosphate; Purine de novo synthesis; Lymphoblastic leukemia; Cytotoxicity (Vogt, M.H.J. (1181) 189)

Methyltrienolone
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fMet-Leu-Phe
Alkaline earth ion; Ionophore A23187; Responsiveness (Boonen, G.J.J.C. (1175) 155)

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Mevinolin
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MHC
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Gramicidin; Tryptophan; Ultraviolet photolysis; Degradation; Photolytic degradation; Rate constant (McKim, S. (1153) 315)

α-Crystallin; Aromatic amino acid; Protein matrix (Augusteyn, R.C. (1162) 61)

Micro-alga
Fatty acid desaturation; Monogalactosyldiacylglycerol; Octadecatetraenoate; (*I. galbana*) (Stern, N. (1167) 248)

Microcalorimetry
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Dimyristoylphosphatidylcholine; Sonicated vesicle; Negative stain electron microscopy; Thermodynamical study (Kodama, M. (1169) 90)

Microcarrier
Benzpyrene; 3T3 cell; Microcalorimetry; pH, intracellular; Sodium ion antiporter (Gebreselassie, D. (1143) 211)

Microelectrode
Bilayer lipid membrane; Ultrasound; Unstirred layer; Weak acid; pH profile (Pohl, P. (1152) 155)

α_1-Microglobulin
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Microring-ring electrode
Micromanipulation; Dielectrophoresis; Microtweezers; Electric field (Matsue, T. (1157) 332)

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Electroinsertion; Glycophorin; Lateral diffusion; Video microscopy (El Ouagari, K. (1151) 105)

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Energy transduction; Membrane potential; Fast energy transduction (Eynard, N. (1144) 391)

Microsequence analysis
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Δ^5-Desaturase; Phospholipid composition; Arachidonic acid; Fluidity; (Rat liver) (Leikin, A.I. (1165) 189)

Microsome
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Platelet-activating factor; Cholinephosphotransferase; Acetyltransferase; Cerebral cortex; (Rabbit) (Baker, R.R. (1170) 157)

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Microtubule-associated protein
Microtubule; Crosslinking; Bundling (MacRae, T.H. (1160) 145)

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Microtubule-associated protein tau
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Microtweezers
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Midgut
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Trehalase; cDNA; (*B. mori*) (Su, Z.-H. (1173) 217)

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Milrinone
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Mineralization
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Minor codon
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Mithramycin
Chelating agent; Circular dichroism; Metal chelator (Demicheli, C. (1158) 59)

Mitochondrial biogenesis
Cytochrome-*c* oxidase; mtDNA copy number; (Human) (Van den Bogert, C. (1144) 177)

Puromycin; Protein transport; Biogenesis; ATP; Precursor protein; (Mitochondrion) (Price, J. (1150) 89)

Mitochondrial β-oxidation
Acylcarnitine; Acyl-CoA; Carnitine palmitoyltransferase I; Malonyl-CoA; 3-Thia fatty acid; Beta oxidation (Skrede, S. (1167) 189)

Mitochondrial damage
5-Aminolevulinic acid; Porphyria; Reactive oxygen species; Calcium ion homeostasis; Calcium ion; Magnesium ion; (Rat liver mitochondrion) (Hermes-Lima, M. (1180) 201)

Mitochondrial dehydrogenase
Calcium; Insulin secretion (Rutter, G.A. (1175) 107)

Mitochondrial disease
Energy transduction; NADH-quinone oxidoreductase; NADH dehydrogenase; Bacterium (Yagi, T. (1141) 1)

Mitochondrial DNA
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Mitochondrial DNA sequence
Cytochrome *b*; Ubiquinone; Respiration inhibition; Amino acid sequence; DNA; Molecular evolution (Degli Esposti, M. (1143) 243)

Mitochondrial encephalomyopathy
Skeletal muscle; Saponin-skinned fiber; Oxidative phosphorylation; Fluorescence microscopy; Mitochondrial myopathy; (Human) (Kunz, W.S. (1144) 46)

Mitochondrial fatty acid oxidation
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Mitochondrial import
ATP synthase assembly; Mitochondrion; Allotopic expression; Site-directed mutagenesis; Duplicated targeting sequence; (Yeast) (Papakonstantinou, T. (1144) 22)

Mitochondrial import site protein
Protein translocation; Sequence comparison; Open reading frame; (*E. coli*) (Cartwright, P. (1153) 345)

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Mitochondrial inner membrane
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Mitochondrial membrane
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Mitochondrial myopathy
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Skeletal muscle; Saponin-skinned fiber; Oxidative phosphorylation; Fluorescence microscopy; Mitochondrial encephalomyopathy; (Human) (Kunz, W.S. (1144) 46)

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Mitochondrial processing
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Mitochondrial protein
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Mitochondrial pyruvate transporter
Myocardium; Pyruvate dehydrogenase; Dichloroacetate; α-Cyanohydroxycinnamate; Donnan equilibrium (Bünger, R. (1151) 223)

Mitochondrial targeting sequence
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Mitochondrial very long chain acyl-CoA dehydrogenase
Mitochondrial fatty acid oxidation; Inborn error; Fibroblast (Bertrand, C. (1180) 327)

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Oxidative phosphorylation; Energy conservation; Efficiency; (Potato tuber) (Groen, B.H. (1140) 37)

Carnitine carrier; Reconstitution; Thiol modification; Liposome; (Rat liver) (Indiveri, C. (1140) 53)

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Betaine; Transport; Diffusion; (Rat liver) (Porter, R.K. (1141) 269)

Reconstitution; Tricarboxylate carrier; Transport mechanism; (Rat liver) (Bisaccia, F. (1142) 139)

Alternative oxidase; Cyanide-resistant respiration; Ubiquinone pool (Q-pool); Electron transfer; (Plant) (Siedow, J.N. (1142) 165)

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Cytochrome *c*; Ionic strength; Intermembrane space; Membrane fusion; Electron transport (Cortese, J.D. (1142) 194)

Dextran; Adenylate kinase; Porin; Compartmentation; Intermembrane space (Gellerich, F.N. (1142) 217)

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Cytochrome bc_1 complex; Electron transport inhibition; Structure–activity relationship (quantitative); (Rat liver) (Miyoshi, H. (1143) 23)

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Protein synthesis; Calmodulin antagonist; Respiration (Vijayasarathy, C. (1143) 38)

Yeast; Alternative pathway; Cytochrome *c*; (*C. parapsilosis*) (Camougrand, N. (1143) 135)

Heart; Isolation; NADH; Respiratory chain (Fraisse, L. (1143) 190)

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ATP synthase assembly; Mitochondrial import; Allotopic expression; Site-directed mutagenesis; Duplicated targeting sequence; (Yeast) (Papakonstantinou, T. (1144) 22)

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Cytochrome-*c* reductase; Cytochrome c_1; cDNA; Targeting presequence; (*C. fasciculata*); (*B. caudatus*) (Priest, J.W. (1144) 229)

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Respiratory chain; Cytochrome c_1; Heme; Resonance Raman; Active site; (*R. sphaeroides*) (Lou, B.-S. (1144) 403)

ATPase, F_1-; Azido-AMP-PNP; Cooperativity; Substrate binding; (Beef heart) (Eckhardt, U. (1144) 419)

Phosphatidylserine transfer protein; Phosphatidylethanolamine; Membrane contact; (*S. cerevisiae*) (Simbeni, R. (1145) 1)

Porin; VDAC; Reconstitution; Liposome; Polyanion (Báthori, G. (1145) 168)

Phosphate carrier; Reconstitution; Transmembrane orientation; Thiol modification; Membrane permeability (Stappen, R. (1149) 40)

Lipid transport; Phosphatidylserine phosphotransferase; Fluorescence spectroscopy (Jasińska, R. (1152) 161)

ADP/ATP carrier; Solute carrier family; Primary structure; Gene structure; (Rat) (Shinohara, Y. (1152) 192)

L-Pipecolate oxidase; Peroxisome; Induction; Development (Rao, V.V. (1164) 29)

DNA topoisomerase I; Platelet; Scleroderma; Topotecan; (Human) (Kosovsky, M.J. (1164) 101)

Fatty acid oxidation; Membrane, outer; Ketogenesis; Carnitine palmitoyltransferase; 3-Hydroxy-3-methylglutaryl-coenzyme A synthase; (Mammalian liver) (Guzmán, M. (1167) 227)

Amino acid sequence; Cloning; Liver; (Rat) (Van Schaik, R.H.N. (1169) 1)

High fat diet; Fatty acid content; Peroxisome; β-Oxidation; Liver; Heart; (Rat) (Vamecq, J. (1170) 151)

Adenine nucleotide translocator; (*Arabidopsis*) (Schuster, W. (1172) 205)

Mitochondrial protein; Nuclear gene; Respiratory chain; Electron transport; Recombinant DNA; Nucleotide sequence analysis; mRNA (Sadlock, J.E. (1172) 223)

NADH:ubiquinone oxidoreductase; Complex I; cDNA; (*N. crassa*) (Duarte, M. (1172) 327)

Nucleotide sequence; rRNA large subunit; Ribosomal protein S5; Self-splicing intron; (*P. chrysogenum*) (Naruse, A. (1172) 353)

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Tissue-specific expression; Promoter; MyoD1; Respiration; Transcription regulation (Smith, E.O. (1174) 63)

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Inborn error; Lactic acidosis; Respiratory chain; Oxidative phosphorylation (Wanders, R.J.A. (1181) 219)

Complex III; Succinate–cytochrome-*c* reductase (Taylor, R.W. (1181) 261)

Alcohol; Cardiomyopathy; ATP synthase; Regulation; (Heart) (Das, A.M. (1181) 295)

Mitogen
Lectin; *Euphorbia marginata*; Hemagglutinin; Interleukin; Tumor necrosis factor (Stirpe, F. (1158) 33)

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T cell; Translation; Phosphorylation; eIF-2α; eIF-4α (Boal, T.R. (1176) 257)

Platelet-derived growth factor; Insulin; Glucose transport; (Mouse fibroblast) (Merrall, N.W. (1177) 191)

Mitogenic activity
Lectin; Phytohemagglutinin; Hemagglutinating activity; (Great Northern bean); (*P. vulgaris*) (Kamemura, K. (1158) 181)

Mitogenic response
Epidermal growth factor; Proto-oncogene; DNA synthesis; c-*myc* expression; Fatty acid metabolite; (SHE cell) (Cowlen, M.S. (1174) 234)

Mixed disulfide
Lens protein; Aging; γ-Glutamylcysteine; Cataract; Glutathione (Dickerson, Jr., J.E. (1157) 141)

Mixed interdigitated bilayer
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Mixed valence
Photosynthesis; Reaction center; Stark spectroscopy (Stocker, J.W. (1144) 325)

ML-9
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MLC kinase
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fMLP
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Mobile carrier, ionizable and neutral
Cryptand; Nonactin; Temperature jump; Alkali cation transport kinetics; Transport kinetics; Membrane structure (Vareille, G. (1146) 25)

Mobility shift assay
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Model
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Model calculation
Energy transfer kinetics; Bacterial photosynthesis; Purple bacterium; Picosecond fluorescence; Target (compartmental) analysis; Free energy; (*Rb. capsulatus*) (Müller, M.G. (1142) 49)

Modeling
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Model membrane
Drug carrier; Lipid vesicle; Cell uptake; Biodistribution (Blume, G. (1146) 157)

Liposome permeability; *N*-Acylethanolamine phospholipid; Osmotic response; Phosphatidylcholine; Cholesterol (Domingo, J.C. (1148) 308)

Membrane perturbation; Hydrophobic peptide; Pardaxin; Fluorescence spectroscopy; Membrane association; Binding; Peptide toxin (Saberwal, G. (1151) 43)

Non-radiative energy transfer; Liposome–polymer interaction; Cytoskeleton; Fluorescence; DSC; Quasi-elastic light scattering (Ringsdorf, H. (1153) 335)

Modified low-density lipoprotein
Hydroperoxide; Low-density lipoprotein; Chemiluminescence; Atherosclerosis; Lipid peroxidation (Cominacini, L. (1165) 279)

Modulation analysis
Electron spin echo; Chlorophyll center; Reaction center; Photosystem I; (Bacteria); (Spinach) (Davis, I.H. (1143) 183)

Modulator protein
Membrane channel, voltage dependent; VDAC; Mitochondrion; Membrane channel modulation (Holden, M.J. (1144) 396)

Modulator
Multidrug resistance; Membrane; Lipid; Micelle; Fluorescence (Wadkins, R.M. (1153) 225)

MoFe protein
Nitrogenase; Nuclear quadrupole interaction; Storage protein; (*A. vinelandii*); (*K. pneumoniae*) (Mottner, P. (1164) 311)

Molecular cloning
Characterization; Allergen; IgE; (*Myrmecia pilosula*) (Donovan, G.R. (1171) 272)

Molecular dynamics
Phospholipase A_2; Substrate complex (Jones, S.T. (1162) 135)

Protein stability; Nuclease; Free energy; Denaturation; Component analysis; (*S. aureus*) (Yamaotsu, N. (1163) 81)

Molecular dynamics simulation
Arachidonic acid; Fatty acid; Conformational analysis; Computer simulation (Rich, M.R. (1178) 87)

Molecular evolution
Cytochrome *b*; Ubiquinone; Respiration inhibition; Amino acid sequence; Mitochondrial DNA sequence; DNA (Degli Esposti, M. (1143) 243)

Prolactin; Protein purification; Primary structure; Pituitary gland; (*P. aethiopicus*) (Noso, T. (1164) 159)

Molecular hybridization
Epicotyl; *S*-Adenosylmethionine synthetase regulation; Gibberellic acid; Enzyme synthesis, de novo; Isozyme; (Dwarf pea) (Mathur, M. (1162) 283)

Molecular mimicry
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Molecular model
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Molecular modeling
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Sequence homology; Cholesterol; Membrane topology; Cytochrome $P\text{-}450_{scc}$ (Vijayakumar, S. (1160) 281)

Carbonic anhydrase II; Salt bridge reagent; Cyanogen (Ghenbot, G. (1161) 59)

Molecular ovality
Peptide synthesis; Amino terminal protecting group; α-Chymotrypsin; Partition parameter; Hydrophobicity (Calvet, S. (1164) 189)

Molecular packing
L-Carnitine; Acetyl-L-carnitine; Propionyl-L-carnitine; Membrane fluidity; Erythrocyte (Arduini, A. (1146) 229)

Molecular species
Glycerophospholipid; 1,2-Diacylglycerol; Peripheral nerve; Experimental diabetes (Zhu, X. (1168) 1)

Molecular weight
ATPase, Na^+/K^+-; Membrane protein; Oligomeric structure; Phospholipid; Association–dissociation (Mimura, K. (1145) 63)

Dextran-protein conjugate; Low-angle light scattering; Gel chromatography; Emulsifier (Kato, A. (1159) 22)

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Molybdenum cofactor
Molybdopterin; Molybdoenzyme; (*C. reinhardtii*) (Aguilar, M. (1160) 269)

Molybdoenzyme
Molybdenum cofactor; Molybdopterin; (*C. reinhardtii*) (Aguilar, M. (1160) 269)

Molybdopterin
Molybdenum cofactor; Molybdoenzyme; (*C. reinhardtii*) (Aguilar, M. (1160) 269)

Monensin
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Sphingomyelin; Ceramide; BHK (Kallen, K.-J. (1166) 305)

NMR, ^{23}Na-; Potassium ion atomic absorption; Bacterial membrane; 4-Chorophenylurethane-monensin; Ion selectivity; (*S. faecalis*); (*E. hirae*) (Rabaste, F. (1179) 166)

Monoacylglycerol acyltransferase
Lipid metabolism; Hepatoma/hepatocyte; Hybrid cell; Diacylglycerol; Permeabilized cell (Coleman, R.A. (1165) 306)

Monobromobimane
Protein thiol; Accessibility; (Rat hepatocyte) (Weis, M. (1176) 13)

Monoclonal antibody
Rhodopsin; Rhodopsin phosphorylation; Disk membrane; Plasma membrane (Hsu, Y.-T. (1145) 85)

Glycoprotein, 53 kDa; Calcium ion uptake (Matthews, I. (1146) 265)

Renal proximal tubule; Brush-border membrane; Kidney-specific antigen; Western blotting (Birk, H.-W. (1148) 67)

Plasma membrane; Protein reconstitution; Screening test; Membrane protein; ATPase, H^+-; (Plant) (Gaymard, F. (1150) 73)

Melittin; Peptide analog; Cytolytic activity (Werkmeister, J.A. (1157) 50)

Neuron-specific enolase; Alzheimer's disease; Amyloid; Epitope mapping (Harrington, C.R. (1158) 120)

Chorionic gonadotropin; Antigenic determinant; Structure-function relationship (Maurel, M.-C. (1159) 74)

Hydrogen exchange; Fab fragment; Antigen induced stabilization; Antigen recognition (Rizzo, P. (1159) 169)

Pyruvate dehydrogenase complex; Pyruvate dehydrogenase; Enzyme-linked immunosorbent assay; Radioimmunoassay; Polyclonal antibody (McNally, A. (1160) 179)

Cytochrome *P*-450; Anti-peptide antibody; Epitope; Enzyme inhibition; Protein structure (Edwards, R.J. (1161) 38)

Protein C; Epitope mapping; Blood coagulation (Takahashi, M. (1161) 113)

Cooperativity; Antibody affinity; Solid phase (Werthén, M. (1162) 326)

Retinol dehydrogenase; Pigment epithelium; 11-*cis*-Retinal; Rhodopsin; Visual cycle; (Retina) (Suzuki, Y. (1163) 201)

Stefin B; Cysteine proteinase inhibitor; Epitope determination; Surface accessibility (Kopitar-Jerala, N. (1164) 75)

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α-Toxin; Erythrocyte; Ion channel; Planar lipid bilayer membrane; (*Staphylococcus aureus*) (Krasilnikov, O.V. (1182) 94)

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Monocyte
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Sodium nitroprusside; Cyanide release; Oxidation; Polymorphonuclear Leukocyte (Campbell, J.M. (1156) 327)

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Monoclonal antibody; Enzyme immunoassay; Macrophage; Endothelial cell (Jeng, J.-R. (1181) 287)

Monocyte / macrophage differentiation
Glycosphingolipid; Ganglioside; UDP-glucose : ceramide glucosyltransferase; UDP-galactose : glucosylceramide β-galactosyltransferase; CMP-*N*-acetylneuraminic acide : lactosylceramide sialyltransferase (Kiguchi, K. (1176) 27)

Monogalactosyldiacylglycerol
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5-Cholesten-3β-ol; 5-Cholesten-3-one; 4-Cholesten-3-one; Δ^5-Isomerase; Cholesterol oxidase (Slotte, J.P. (1145) 243)

Monomethylphosphatidylethanolamine
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Mononitrosyl iron complex
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Mononitrosyl-iron diethyldithiocarbamate complex
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3-Morpholinosydnonimine hydrochloride
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Morphology
Critical aggregate concentration (CAC); Peptidic lipid; Self assembly; DSC (Shimizu, T. (1147) 50)

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Motile system
Actin filament; Super helix formation; Muscle contraction (Tanaka, Y. (1159) 94)

Motility
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Sodium motor; Sodiummotive respiration; Protonmotive respiration; (*Bacillus FTU*) (Bogachev, A.V. (1142) 321)

Mouse mammary tumor virus
Nuclear matrix; Origin of replication; Transcription activation; Bovine papilloma virus; Harvey murine sarcoma virus (Adom, J.N. (1171) 187)

M2 subunit
cDNA sequence; Ribonucleotide reductase; Hydroxyurea; (Hamster) (Chaudhuri, M.M. (1171) 117)

Mucolipidosis type-4
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Multicatalytic proteinase
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Multidrug resistance
Glycoprotein, P-; Glycoprotein; ATPase; Detergent; Phospholipid (Doige, C.A. (1146) 65)

MDR; Drug resistance; Mutagenesis; Topology; Membrane orientation; P-glycoprotein (Zhang, J.-T. (1153) 191)

Membrane; Modulator; Lipid; Micelle; Fluorescence (Wadkins, R.M. (1153) 225)

P-glycoprotein; Glycoprotein; Transport activity; Progesterone; Progesterone metabolite; (Adrenal gland) (Lchikawa-Haraguchi, M. (1158) 201)

ATP binding site; P-glycoprotein; Glycoprotein; 3′ Untranslated region; Detoxification; (Winter flounder) (Chan, K.M. (1171) 65)

P-glycoprotein; 5′ Flanking (promoter) region; Negative element (Zastawny, R.L. (1173) 303)

Amphiphile; Drug efflux; Membrane biophysical property; Fatty acid (Callaghan, R. (1175) 277)

Vinblastine; Transepithelial transport; P-glycoprotein; Cytotoxicity; (Kidney cell-line); (MDCK cell) (Hunter, J. (1179) 1)

Multidrug transporting system
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Multi-electrode design
Single cell manipulation; Force calculation; Dielectrophoresis; Electrorotation; Microstructure; Field cage (Schnelle, T. (1157) 127)

Multilamellar liposome
α-Toxin; Nicked toxin, naturally occurring; Assembly; Membrane channel; (*S. aureus*) (Tomita, T. (1145) 51)

Multiple binding site kinetics
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Multiple emulsion
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Multiple sclerosis
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Multiple sclerosis plaque
Infrared spectroscopy; Multiple sclerosis; Central nervous system; (Human) (Choo, L.-P. (1182) 333)

Multiplicity
Peptidyl prolyl *cis-trans* isomerase; Cyclophilin; Cyclosporin A; (*S. cerevisiae*) (Hasumi, H. (1161) 161)

Murine fibroblast cell
Aurothioglucose; Indomethacin; Interleukin 1; Recombinant gene; NF-kB; AP-1; (NIH 3T3 cell) (Williams, D.H. (1180) 9)

Murine genomic clone
α_2-Adrenoceptor (Chen, W.-M. (1171) 219)

Murine lymphoma cell
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Muscarinic receptor
Receptor antagonist; Cyclic nucleotide; Signal transduction; cyclic GMP; (Rat large intestine) (Khare, S. (1179) 234)

Muscarinic receptor gene
G protein-coupled receptor; Acetylcholine; Nucleotide sequence; (Mouse) (Van Koppen, C.J. (1173) 342)

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Dicarboxylate; Beta oxidation; Mitochondrion (Pourfarzam, M. (1141) 81)

Myotonia; ADR; Fatty acid; Sarcolemma; Sarcoplasmic reticulum (Birkle, D.L. (1146) 236)

Branched-chain 2-oxo acid dehyrogenase complex; Branched-chain amino acid; Branched-chain 2-oxo acid; Lactate; Tetanic contraction (Shimomura, Y. (1157) 290)

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Muscle contraction
Epitrochlearis muscle; Hypoxia; Insulin; 3-*O*-Methylglucose (Ren, J.-M. (1145) 199)

Actin filament; Super helix formation; Motile system (Tanaka, Y. (1159) 94)

Calponin phosphorylation; Calponin isoform; Smooth muscle (Bárány, M. (1179) 229)

Muscle fiber
Zinc ion; Sodium ion efflux; Inhibitory effect; (*B. nubilus*) (Xie, H. (1153) 219)

Invertebrate muscle; Phosphoinositide; Phospholipid; (Barnacle) (Compagnon, D. (1167) 94)

Muscle membrane
Fatty acid; Phospholipid; Skeletal muscle; Myotube; Sodium ion current (Brinkmeier, H. (1145) 8)

Muscle mitochondrion
Metabolism control; Myopathy; Oxidative phosphorylation; Mitochondrial myopathy (Letellier, T. (1141) 58)

Mutagenesis
MDR; Multidrug resistance; Drug resistance; Topology; Membrane orientation; P-glycoprotein (Zhang, J.-T. (1153) 191)

Calmodulin; Myosin light-chain kinase; Calcium; Fluorescence; Protein kinase (Kilhoffer, M.-C. (1160) 8)

Insulin receptor; Receptor function; Mutational analysis; Signaling pathway (Tavaré, J.M. (1178) 21)

Mutant
Bacteriorhodopsin; Protein encapsulation; (*H. halobium*) (Weetall, H.H. (1142) 211)

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Mutant aromatase
Cytochrome *P*-450; ELISA; Structure-function relationship (Kadohama, N. (1163) 195)

Mutant strain
ATPase, F_1-; Gene complementation; Mutant strain complementation; Gene expression; (*E. coli*); (*Synechocystis* sp. PCC 6803) (Lill, H. (1144) 278)

Mutant strain complementation
ATPase, F_1-; Mutant strain; Gene complementation; Gene expression; (*E. coli*); (*Synechocystis* sp. PCC 6803) (Lill, H. (1144) 278)

Mutation
Factor VII; Variant (James, H.L. (1172) 301)

LDL; LDL receptor; Familial hypercholesterolemia (Rubinsztein, D.C. (1182) 75)

Mutational analysis
Insulin receptor; Receptor function; Mutagenesis; Signaling pathway (Tavaré, J.M. (1178) 21)

Mycobacterium
Glycolipid; Glucuronic acid; Antigenic mycobacterial glycolipid; FABMS; NMR, ^{1}H- (Wolucka, B.A. (1170) 131)

Mycobacterium avium—M. intracellulare complex
Glycolipid; 5-Mycoloylarabinofuranosyl-5-mycoloylarabinofuranosylglycerol (Watanabe, M. (1165) 53)

Mycolic acid biosynthesis
Fatty acid; (*M. smegmatis*) (Wheeler, P.R. (1167) 182)

5-Mycoloylarabinofuranosyl-5-mycoloylarabinofuranosylglycerol
Glycolipid; *Mycobacterium avium—M. intracellulare* complex (Watanabe, M. (1165) 53)

Mycophenolic acid
6-Mercaptopurine; Lymphoblastic leukemia; Cytotoxicity (Stet, E.H. (1180) 277)

Myelin
Lipid–protein interaction; Spin label; Saturation transfer; Proteolipid protein; Lipid gel phase; EPR (Horváth, L.I. (1147) 277)

Brain; Peroxisome; Lignoceroyl-CoA ligase; Lignoceric acid oxidation (Singh, I. (1170) 44)

Myeloid leukemia cell
Differentiation; ML-9; GM-CSF; (U937 cell) (Makishima, M. (1176) 245)

Myeloperoxidase
Atherosclerosis; Flow chamber; Intercellular adhesion molecule 1; Vascular cell adhesion molecule 1; Rose Bengal (Jeng, J.-R. (1178) 221)

Myeloproliferative disorder
Platelet; 12-Lipoxygenase; Polymerase chain reaction; Enzyme immunoassay; Enzyme deficiency (Matsuda, S. (1180) 243)

Myoadenylate deaminase deficiency
AMP deaminase; Adenylate deaminase; Type-1 muscle; Type-2 muscle; Isozyme immunochemistry; (Muscle) (Fishbein, W.N. (1163) 97)

Myoblast
1,25-Dihydroxyvitamin D-3; Arachidonic acid; Phospholipase A_2; Protein kinase C (De Boland, A.R. (1179) 98)

Phospholipase A_2; Myotoxin; Snake venom; Cytotoxicity (Bultrón, E. (1179) 253)

Myotube; Myogenesis; Mitochondrion; Mitochondrial DNA; Ethidium bromide (Herzberg, N.H. (1181) 63)

Myoblast fusion
Calpain; Calpastatin; Filamin (Kwak, K.B. (1175) 243)

Myocardium
Basic fibroblast growth factor; bFGF; Heparitin sulfate proteoglycan; Plasma membrane (Ross, C.R. (1145) 219)

Pyruvate dehydrogenase; Dichloroacetate; α-Cyanohydroxycinnamate; Mitochondrial pyruvate transporter; Donnan equilibrium (Bünger, R. (1151) 223)

Calpain; Ischemia; Reperfusion; Calcium (Yoshida, K.-i. (1182) 215)

MyoD1
Mitochondrion; Tissue-specific expression; Promoter; Respiration; Transcription regulation (Smith, E.O. (1174) 63)

Myogenesis
Acetylcholinesterase; Cell culture; Chick embryo; Fibroblast; Plasma membrane; Skeletal muscle (Elson, H.F. (1156) 78)

CSF-1; Regulation; Posttranscriptional regulation; (Rat myoblast) (Borycki, A.-g. (1174) 143)

Myoblast; Myotube; Mitochondrion; Mitochondrial DNA; Ethidium bromide (Herzberg, N.H. (1181) 63)

Myogenic cell
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Myoglobin
Oxygen; NMR, ^{1}H-; Hemoglobin; (Human heart) (Kreutzer, U. (1161) 33)

Amino acid sequence; Dimeric myoglobin; Cooperativity; (*N. mutabilis*) (Parente, A. (1162) 1)

Metmyoglobin; Mutant; Ligand affinity; (*E. coli*) (Biram, D. (1163) 67)

NMR; Hyperfine shift; Nuclear Overhauser effect; Heme; Heme electronic structure (Yamamoto, Y. (1163) 287)

Protein reconstitution; Heme orientation; Synthetic hemin; Circular dichroism; (Horse heart) (Santucci, R. (1164) 133)

Myoglobin unfolding
Protein dynamics; Transition state; Transition pathway (Konno, T. (1162) 93)

Myometrium
Calcium; Serum-restriction (Morgan, J.M. (1158) 98)

Myopathy
Metabolism control; Muscle mitochondrion; Oxidative phosphorylation; Mitochondrial myopathy (Letellier, T. (1141) 58)

Myopathy diagnosis
Mitochondrial myopathy; mtDNA amplification (Erickson, C.E. (1181) 77)

Myosin
Nucleotide binding; Charge effect; Donnan potential (Bartels, E.M. (1157) 63)

Enzyme purification; Metalloproteinase; Cobalt ion; Zinc ion; (Squid muscle) (Okamoto, Y. (1161) 97)

Protein kinase; Autophosphorylation; Phospholipid; (*Dictyostelium*) (Medley, Q.G. (1175) 7)

Myosin I
Membrane binding; Developmental regulation; (*D. discoideum*) (Urrutia, R.A. (1173) 225)

Myosin light-chain kinase
Calmodulin; Calcium; Fluorescence; Mutagenesis; Protein kinase (Kilhoffer, M.-C. (1160) 8)

Myosin subfragment 1
Tryptophan phosphorescence; Fluorescence anisotropy; Transient electric birefringence; Structural dynamics (Papp, S. (1159) 267)

Myotonia
Muscle; ADR; Fatty acid; Sarcolemma; Sarcoplasmic reticulum (Birkle, D.L. (1146) 236)

Myotoxin
Phospholipase A_2; Snake venom; Cytotoxicity; Myoblast (Bultrón, E. (1179) 253)

Myotube
Fatty acid; Phospholipid; Skeletal muscle; Sodium ion current; Muscle membrane (Brinkmeier, H. (1145) 8)

Myoblast; Myogenesis; Mitochondrion; Mitochondrial DNA; Ethidium bromide (Herzberg, N.H. (1181) 63)

***N*-Myristoyl transferase**
Diabetes; Vanadate; (Rat liver) (King, M.J. (1165) 259)

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NAD$^+$
Poly(ADP-ribose) polymerase; Expression; Immunoblotting; DNA binding; (*E. coli*) (Thibodeau, J. (1163) 49)

NAD glycohydrolase
ADP-ribose uptake; ADP-ribose transport; Ectoenzyme; (Human); (Erythrocyte) (Kim, U.-H. (1178) 121)

NAD kinase
Calmodulin; MLC kinase; Calcineurin; ATPase, Ca^{2+}-Mg^{2+}; Enzyme regulation (Persechini, A. (1163) 309)

NADH
Heart; Mitochondrion; Isolation; Respiratory chain (Fraisse, L. (1143) 190)

NADH-CoQ reductase
Lacticacidemia; Pyruvate dehydrogenase complex; Cytochrome oxidase; ATPase; Oligomycin sensitivity (Robinson, B.H. (1182) 231)

NADH dehydrogenase
Energy transduction; NADH-quinone oxidoreductase; Mitochondrial disease; Bacterium (Yagi, T. (1141) 1)

Coupling site I; Flavoprotein; FMN; Respiratory chain; (Bovine heart mitochondria) (Sled, V.D. (1143) 199)

NADH-dehydrogenase
Antioxidant; Atherosclerosis; Coenzyme Q; Ubiquinol-10 (Stocker, R. (1158) 15)

NADH-fluorescence
Ischemia; Fatty acid; Oxygen radical; (Rat heart) (Hulsmann, W.C. (1181) 273)

NADH oxidase
Thermophile; Gene sequence; Nucleotide sequence; (*Th. brockii*) (Liu, X.-L. (1174) 187)

NADH-quinone oxidoreductase
Energy transduction; Mitochondrial disease; NADH dehydrogenase; Bacterium (Yagi, T. (1141) 1)

NADH : ubiquinone oxidoreductase
Electron transfer; Hexammineruthenium(III); Steady-state kinetics; (Bovine heart mitochondria) (Sled, V.D. (1141) 262)

Mitochondrion; Complex I; cDNA; (*N. crassa*) (Duarte, M. (1172) 327)

NADH-ubiquinone reductase
Respiratory chain; Electron transfer; Rotenone inhibition; (Bovine heart mitochondrion) (Kotlyar, A.B. (1140) 169)

NADPH
Glutathione; Catalase; Hydrogen peroxide; Glucose-6-phosphate dehydrogenase; Oxidation; (Erythrocyte) (Scott, M.D. (1181) 163)

NADP(H) binding site
Divalent cation; Cation; Transhydrogenase; Enzyme function; (Beef heart mitochondria) (Sazanov, L.A. (1144) 225)

NADPH–cytochrome-*P*-450 reductase
Absorbance spectrometry; Binding complex; Cytochrome $P\text{-}450_{S21}$ (Iwamoto, Y. (1159) 122)

NAD(P)H dehydrogenase
Mitochondrion; Inner membrane; Enzyme purification; Protein purification; Respiratory chain; Rotenone insensitivity; (Plant) (Rasmusson, A.G. (1141) 107)

NADPH oxidase
Arachidonic acid; Substrate affinity; Signal transduction; Enzyme activation; (Cytoplasmic membrane); (Endosome) (Rubinek, T. (1176) 51)

Electropermeabilization; Signal transduction; cyclic AMP; G protein; Neutrophil; (Human) (Mitsuyama, T. (1177) 167)

Superoxide; Cell-free system; (Pig neutrophil) (Yu, L. (1178) 73)

Cytochrome *b*-245; Cytosolic factor; Oxidase activation; Chronic granulomatous disease; EBV-B lymphocyte (Morel, F. (1182) 101)

NAD(P)H : quinone reductase
Succinate-ubiquinone reductase; Ubiquinol-fumarate reductase; Respiratory chain; (Bovine heart mitochondrion) (Grivennikova, V.G. (1140) 282)

DT-Diaphorase; Antioxidant enzyme; Superoxide dismutase; Catalase; Glutathione reductase; Oxygen toxicity; Lung (Whitney, P.L. (1156) 275)

NADP-malate dehydrogenase
Protein structure; Proteolysis; (Pea chloroplast) (Kampfenkel, K. (1156) 71)

β-Naphthoflavone
Primary culture; Glutathione *S*-transferase; Gene expression; Phenobarbital; 3-Methylcholanthrene; (Hepatocyte); (Rat); (Serum-free medium) (Dwivedi, R.S. (1174) 43)

NB-598
Squalene epoxidase inhibitor; L-654,969; Lipid secretion; Apolipoprotein secretion; HepG2 cell (Horie, M. (1168) 45)

N1E-115
Plasmalogen; Fatty acid composition; Phospholipid; Phospholipid composition; Differentiation (Murphy, E.J. (1167) 131)

Negative element
P-glycoprotein; 5′ Flanking (promoter) region; Multidrug resistance (Zastawny, R.L. (1173) 303)

Negative regulatory element
Promoter analysis; Thionin; Tissue specificity (Fernández, J.A. (1172) 346)

Negative stain electron microscopy
Dimyristoylphosphatidylglycerol; Microcalorimetry; Crystalline cylindrical structure; Thermodynamic stability (Kodama, M. (1168) 243)

Dimyristoylphosphatidylcholine; Sonicated vesicle; Microcalorimetry; Thermodynamical study (Kodama, M. (1169) 90)

Neoglycolipid
Ganglioside GM1; Liposome; Biodistribution (Park, Y.S. (1166) 105)

Neomycin
Potassium ion transport; Glucose regulation; Sugar kinase; Phosphatidylinositol; (*S. cerevisiae*) (Alijo, R. (1179) 224)

Neonate rat
Superoxide dismutase; Liver; Copper (Yang, F.L. (1156) 232)

Neoplasm
Tumor-associated antigen; Antibody; Autologous antibody; Immunology; Serology; (Head); (Neck) (Vlock, D.R. (1181) 174)

Nephrectomy
Signal transduction; Phospholipase D; Phosphatidylethanol; (Rat kidney) (Gatalica, Z. (1177) 87)

Nephrotic syndrome
Thromboxane A_2; TXA_2/PGH_2 receptor; Glomerular function; Receptor binding; (Kidney) (Mayeux, P.R. (1181) 148)

Nerve growth factor
Amino acid sequence; Snake venom; (*V. r. russelli*) (Koyama, J.-i. (1160) 287)

Nerve growth factor, NGF
cyclic AMP; Calcium ion, intracellular; Caffeine; Neuronal death; Superior cervical ganglion (Tanaka, S. (1175) 114)

Neuraminidase
Hemagglutinin; Sendai virus; Allosteric inhibition (Bellini, T. (1161) 323)

Neurite projection
Flow system; Neurite retraction; PC12h-R (Kazuno, Y. (1178) 299)

Neurite-promoting
Proteoglycan; Glycosaminoglycan (Dow, K.E. (1156) 7)

Neurite retraction
Flow system; Neurite projection; PC12h-R (Kazuno, Y. (1178) 299)

Neurofibrillary tangle
Alzheimer's disease; PHF-tau (A68); Microtubule-associated protein tau; Tau protein; Phosphorylation (Brion, J.-P. (1160) 134)

Neurologic abnormality
White matter; Axonal nerve fiber; Oligodendrocyte; Brain tissue section; Immunohistochemistry (Labelle, Y. (1180) 250)

Neuromuscular junction
Magnetic field; Diamagnetism (Rosen, A.D. (1148) 317)

Neuronal death
cyclic AMP; Calcium ion, intracellular; Caffeine; Nerve growth factor, NGF; Superior cervical ganglion (Tanaka, S. (1175) 114)

Neuron membrane
Hemicyanine dye; Fluorescence; Membrane potential; (Leech) (Fromherz, P. (1150) 111)

Neuron-specific enolase
Alzheimer's disease; Amyloid; Monoclonal antibody; Epitope mapping (Harrington, C.R. (1158) 120)

Neurotoxicity
Hereditary tyrosinemia; Succinylacetone (Wyss, P.A. (1182) 323)

Neurotoxin
Botulinum; Ganglioside; Binding; Fragmentation (Kamata, Y. (1156) 213)

Toxin binding; Ganglioside; Protein acceptor; Solubilization; Synaptic membrane; (*C. botulinum*) (Nishiki, T.-i. (1158) 333)

Textilotoxin; Subunit; Amino acid sequence; Phospholipase A_2; (*P. textilis*) (Pearson, J.A. (1161) 223)

Neurotransmitter
Neurotransmitter transport; Transport regulation; Biogenic amine; cDNA (Rudnick, G. (1144) 249)

Neurotransmitter transport
Neurotransmitter; Transport regulation; Biogenic amine; cDNA (Rudnick, G. (1144) 249)

Neurotrophic factor
S100; Calcium; Disulfide; Lipid; Growth factor (Barger, S.W. (1160) 105)

Neutral glycolipid
Phosphonoglycolipid; Precursor; (*D. auricularia*) (Matsubara, T. (1166) 55)

Neutral glycosphingolipid
NMR, ^{1}H-; FABMS; GC-MS; Glycosphingolipid; (*A. juliana*) (Yamaguchi, Y. (1165) 110)

Ceramide; Phytosphingosine; α-Hydroxy fatty acid; Menstrual cycle; Genital tract; (Human female) (Takamatsu, K. (1165) 177)

Neutron diffraction
(−)-Δ^8-Tetrahydrocannabinol; Drug–membrane interaction; Membrane multilayer (Martel, P. (1151) 51)

Neutrophil
Annexin; Membrane fusion; Phospholipid vesicle; Granule (Meers, P. (1147) 177)

Cartilage degradation; Elastase; Reactive oxygen species (Iwamura, H. (1156) 295)

Lipoxin B_4; Leukotriene B_4; ω-Hydroxylation; Cytochrome *P*-450; (Human) (Mizukami, Y. (1168) 87)

Phospholipase C; Phospholipase D; Phosphono analog; Choline phosphoglyceride; (Human) (Strum, J.C. (1169) 25)

Phosphatidic acid; Phosphatidic acid phosphohydrolase; Signal transduction; Second messenger regulation (Taylor, G.S. (1175) 219)

Protein kinase C; β-Isotype; nPKC; Pseudosubstrate; Calcium; Superoxide anion generation; p47-phox (Majumdar, S. (1176) 276)

O_2^- release; Cellular swelling; Plasma membrane; Cytoskeleton; (Guinea pig) (Miyahara, M. (1177) 61)

Electropermeabilization; Signal transduction; NADPH oxidase; cyclic AMP; G protein; (Human) (Mitsuyama, T. (1177) 167)

Interleukin 8; Receptor; G protein; Signal transduction; Chemotaxis (Barnett, M.L. (1177) 275)

Phosphotyrosine phosphatase; Signal transduction; (Human) (Kansha, M. (1179) 189)

Neutrophil activation
Calphostatin C; Protein kinase C inhibitor; Phospholipase A_2; Aggregation; PAF (Svetlov, S. (1177) 75)

Neutrophil, biotinylated
Avidin; Streptavidin; Respiratory burst; Formyl peptide; (Human) (Muzykantov, V.R. (1177) 229)

NF-kB
Aurothioglucose; Indomethacin; Interleukin 1; Recombinant gene; Murine fibroblast cell; AP-1; (NIH 3T3 cell) (Williams, D.H. (1180) 9)

NFKB factor
rel; Oncoprotein; Brachyury T gene (Perrin-Schmitt, F. (1171) 129)

fdxN gene
Ferredoxin; Gene sequence; (*R. rubrum*) (Von Sternberg, R. (1144) 435)

NGFI-B
Steroid/thyroid receptor superfamily; Growth factor; (*Xenopus laevis*) (Smith, T.S. (1173) 239)

NHE1
cDNA cloning; Sequence comparison; Structure-function study (Counillon, L. (1172) 343)

Nicked toxin, naturally occurring
α-Toxin; Assembly; Membrane channel; Multilamellar liposome; (*S. aureus*) (Tomita, T. (1145) 51)

Nickel
Hydrogenase; Sulfate-reducing bacterium; EPR; Redox titration; Iron-sulfur center (Franco, R. (1144) 302)

Iron; EPR; Spin quantitation; Oxygen damage; (*C. thermoaceticum*) (Shin, W. (1161) 317)

Nickel hydrogenase
Complex I; Subunit; Sequence homology; Relationship (Albracht, S.P.J. (1144) 221)

Nicotine
Erythrocyte; Cation channel; Acetylcholine receptor; Carbachol; Patch clamp (Bennekou, P. (1147) 165)

HepG2 cell; Smoking; Lipoprotein lipid; Oleate; Epinephrine; Dexamethasone (Craig, W.Y. (1165) 249)

Nicotinic acetylcholine receptor
FTIR; Secondary structure; Lipid–protein interaction; Desensitization; (*T. californica*) (Butler, D.H. (1150) 17)

NIDDM
Insulin receptor gene; Allele-specific expression (Imano, E. (1181) 131)

nifH
Cyanobacterium; Nitrogen fixation; Nitrogenase reductase; (*Anabaena*) (Murphy, S.T. (1171) 337)

nifW
Nitrogen fixation; Sequence comparison; (*Azospirillum*) (Milcamps, A. (1173) 237)

NifA
Nitrogen fixation; *Nif/fix* gene; Electron transport; −24/−12 promoter; (*Rhizobium*) (Michiels, J. (1144) 232)

Nifedipine
Anoxia; Cytosolic free calcium; LDH release; Cell viability; Calcium ion channel blocker; Verapamil; Diltiazem; (Rat hepatocyte) (Gasbarrini, A. (1177) 1)

***Nif/fix* gene**
Nitrogen fixation; Electron transport; *NifA*; −24/−12 promoter; (*Rhizobium*) (Michiels, J. (1144) 232)

***nif* gene**
Nitrogen fixation; Nitrogenase; *anf* gene; (*C. pasteurianum*) (Zinoni, F. (1174) 83)

Nigericin
Proton transfer; Bilayer lipid membrane; Monensin; Energy coupling; Boundary potential difference (Antonenko, Y.N. (1150) 45)

Nitrate assimilation
Nitrate permease; (*A. chroococcum*) (Muñoz-Centeno, M.C. (1141) 75)

Nitrate permease
Nitrate assimilation; (*A. chroococcum*) (Muñoz-Centeno, M.C. (1141) 75)

Nitric oxide
Nitric oxide reductase; Cytochrome *bc*; Nitrite reductase; Denitrification; (*A. cycloclastes*) (Jones, A.M. (1144) 359)

Argininosuccinate lyase; Urea cycle; B1 repeat; Upstream AUG codon; Upstream open reading frame; Brain; (Rat) (Kawamoto, S. (1173) 111)

Animal tissue; EPR; Iron-induced membrane lesion; Mononitrosyl iron complex (Kubrina, L.N. (1176) 240)

Macrophage; Dinitrosyl-iron dithiolate complex; Dinitrosyl-iron serum albumin complex; EPR; L-Arginine; Mononitrosyl-iron diethyldithiocarbamate complex (Vanin, A.F. (1177) 37)

Endothelium-derived relaxing factor; cGMP; Guanylyl cyclase; Protein kinase; Phosphorylation (Schmidt, H.H.H.W. (1178) 153)

Brain ischemia; Common carotid occlusion; EPR; Spin trapping (Sato, S. (1181) 195)

Nitric oxide donor
Islet cell; Cytotoxicity; Rat; Macrophage; Tumor cell (Kröncke, K.-D. (1182) 221)

Nitric oxide production
Tumor necrosis factor; Antitumor activity; Cytotoxicity; (Human-mouse hybrid cell line) (Southern, C. (1177) 179)

Nitric oxide radical
Atherosclerosis; Lipid peroxidation; 3-Morpholinosydnonimine hydrochloride; Superoxide anion radical; LDL (Jessup, W. (1180) 73)

Nitric oxide reductase
Cytochrome *bc*; Nitrite reductase; Denitrification; Nitric oxide; (*A. cycloclastes*) (Jones, A.M. (1144) 359)

Nitrite reductase
Ferredoxin binding; Complex formation; Lysine modification; Arginine modification (Hirasawa, M. (1140) 304)

Nitric oxide reductase; Cytochrome *bc*; Denitrification; Nitric oxide; (*A. cycloclastes*) (Jones, A.M. (1144) 359)

Nitrobenzylthioinosine
Nucleoside transport; Active transport; Renal epithelium; (OK cell) (Doherty, A.J. (1147) 214)

Nitrogen
Liver; Regeneration (Lorenzi, M. (1157) 9)

Nitrogen dioxide
Type II pneumocyte; Lung surfactant; Phospholipid synthesis; (Rat) (Müller, B. (1170) 38)

Nitrogen fixation
Nif/fix gene; Electron transport; *NifA*; $-24/-12$ promoter; (*Rhizobium*) (Michiels, J. (1144) 232)

Cyanobacterium; *nifH*; Nitrogenase reductase; (*Anabaena*) (Murphy, S.T. (1171) 337)

nifW; Sequence comparison; (*Azospirillum*) (Milcamps, A. (1173) 237)

Nitrogenase; *nif* gene; *anf* gene; (*C. pasteurianum*) (Zinoni, F. (1174) 83)

Nitrogenase
Acid labile sulfide; Dinitrogen reduction; (Alfalfa); (*R. meliloti*) (Miller, R.W. (1163) 31)

Ferredoxin; Electron transfer; Cyanobacterium; (*A. variabilis*) (Yakunin, A.F. (1163) 124)

Iron protein; Iron-sulfur cluster; EPR; Magnetic circular dichroism (Onate, Y.A. (1164) 113)

MoFe protein; Nuclear quadrupole interaction; Storage protein; (*A. vinelandii*); (*K. pneumoniae*) (Mottner, P. (1164) 311)

Nitrogen fixation; *nif* gene; *anf* gene; (*C. pasteurianum*) (Zinoni, F. (1174) 83)

Nitrogenase reductase
Cyanobacterium; *nifH*; Nitrogen fixation; (*Anabaena*) (Murphy, S.T. (1171) 337)

***p*-Nitrophenol**
Cytochrome *P*-4502E1; Expression; Dimethylnitrosamine; (*E. coli*) (Winters, D.K. (1156) 43)

***p*-Nitrophenyl acyl ester**
Critical micellar concentration; Ionic/nonionic detergent (Bonelli, F.S. (1166) 92)

3-Nitrosalicyl *N*-alkylamide
QH_2:cytochrome *c* reductase; Inhibitory site; Antimycin A (Xu, J.-x. (1142) 83)

Nitrotyrosine
Aminotyrosine; Nitrotyrosyl ribonuclease A; Nitrotyrosyl lysozyme; Tetranitromethane; NMR, ^{15}N- (Skawinski, W.J. (1162) 297)

Nitrotyrosyl lysozyme
Nitrotyrosine; Aminotyrosine; Nitrotyrosyl ribonuclease A; Tetranitromethane; NMR, ^{15}N- (Skawinski, W.J. (1162) 297)

Nitrotyrosyl ribonuclease A
Nitrotyrosine; Aminotyrosine; Nitrotyrosyl lysozyme; Tetranitromethane; NMR, ^{15}N- (Skawinski, W.J. (1162) 297)

Nitrous oxide reductase
Cytochrome *c*; Denitrification; Kinetics; Cytochrome *c*-N_2O oxidoreductase; (*W. succinogenes*) (Zhang, C.-s. (1142) 253)

Nitroxide metabolism
EPR; Oxygen; Reduction rate, in vivo (Quaresima, V. (1182) 115)

NK cell
Signal transduction; Zeta chain; Phenylarsine oxide (Bajpai, A. (1177) 291)

N-linked oligosaccharide
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NMR
Chaotropic anion; Phospholipid interaction (Jendrasiak, G.L. (1145) 25)

Protein–lipid interaction; Supported bilayer; FTIR; DSC; Order parameter (Reinl, H.M. (1151) 127)

Apamin; Toxin; Biotin-avidin; Calcium-activated K^+ channel; Adrenergic receptor (Shahidi, S. (1157) 74)

Opioid peptide; Distance-geometry calculation; Restrained molecular dynamics simulation; ROESY spectrum (Chuang, L.-C. (1158) 209)

Tryptophan-repressor; Protein-DNA complex; Protein-ligand complex (Evans, J.N.S. (1160) 156)

EDTA; Iodide; Horseradish peroxidase (Modi, S. (1162) 121)

Myoglobin; Hyperfine shift; Nuclear Overhauser effect; Heme; Heme electronic structure (Yamamoto, Y. (1163) 287)

NMR, ^{19}F-; Boronic acid; Serine proteinase; Nuclear Overhauser effect; Protein dynamics (Sylvia, L.A. (1163) 321)

DPPC; POPG; Phase property; Chemical shift anisotropy; Lung surfactant (Wiedmann, T. (1167) 114)

Diphytanylglycerol diether analog; Phosphatidylglycerophosphate; Phosphatidylglycerophosphate methyl ester; Thin-layer chromatography; FABMS; (*H. salinarium*); (*H. cutirubrum*) (Kates, M. (1169) 46)

Lead; Calcium; 1,25-Dihydroxyvitamin D-3; (ROS 17/2.8 cell) (Schanne, F.A.X. (1180) 187)

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Lactoperoxidase; Thiocyanate ion (Pollock, J.R. (1159) 279)

NMR, ^{13}C-
Lipid–water system; Membrane; Excitation condition (Montez, B. (1152) 314)

Alanine; Tricarboxylic acid cycle; Glucogenesis; (*Manduca sexta*) (Thompson, S.N. (1157) 259)

Erythrocyte; Glucose metabolism; Pentose phosphate pathway; (Human) (Schrader, M.C. (1182) 162)

Glucose, ^{13}C-labeled; Sickle cell erythrocyte; Erythrocyte; Glucose metabolism; Pentose phosphate pathway; (Human) (Schrader, M.C. (1182) 179)

NMR, double quantum filtered ^{23}Na-
Sodium ion concentration; Erythrocyte (Tauskela, J.S. (1158) 155)

NMR, ^{19}F-
Erythrocyte; Membrane transport; Trifluoroaceate (Xu, A.S.L. (1150) 35)

NMR; Boronic acid; Serine proteinase; Nuclear Overhauser effect; Protein dynamics (Sylvia, L.A. (1163) 321)

Rat liver ischemia; NMR, ^{31}P-; Liver hormone; Adenosine triphosphate (Walsh, T.R. (1181) 7)

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Polyene antifungal antibiotic; Circular dichroism; Aggregation; Amphotericin B (Balakrishnan, A.R. (1148) 269)

Membrane dynamics; Phosphatidylcholine; Plasmalogen; Arachidonic acid; Fluorescence (Chen, X. (1149) 241)

Skin; Glycosaminoglycan; Vitamin E; Ultraviolet light; Infrared; (Rat) (Longas, M.O. (1156) 239)

Calmodulin; Phospholamban; Caldesmon; Interaction (Gao, Y. (1160) 22)

Kallikrein; Peptide inhibition; (Rat) (El-Thaher, T.S. (1160) 235)

Oxygen; Myoglobin; Hemoglobin; (Human heart) (Kreutzer, U. (1161) 33)

Protamine; Clupeine; Clupeine–nucleotide interaction (D'Auria, G. (1162) 209)

Tachyplesin I; Polyphemusin II; anti-HIV peptide; Distance geometry; (XPLOR) (Tamamura, H. (1163) 209)

α-Crystallin; NMR, ^{31}P-; Denaturation; Protein structure; (Bovine lens) (Carver, J.A. (1164) 22)

Thioredoxin; Protein folding; Selective deuteration; Amino acid (Wishart, D.S. (1164) 36)

Neutral glycosphingolipid; FABMS; GC-MS; Glycosphingolipid; (*A. juliana*) (Yamaguchi, Y. (1165) 110)

Phosphonoglycosphingolipid; Acidic glycosphingolipid; FABMS; (*A. juliana*) (Yamaguchi, Y. (1165) 160)

Cardiac; Triacylglycerol; Lipolysis; Fatty acid metabolism (Madden, M.C. (1169) 176)

Glycolipid; Mycobacterium; Glucuronic acid; Antigenic mycobacterial glycolipid; FABMS (Wolucka, B.A. (1170) 131)

NMR, ^{2}H-
Amantadine free base; Amantadine hydrochloride; Phospholipid multilayer; X-ray diffraction (Duff, K.C. (1145) 149)

Phosphatidylcholine; Surface charge; Lipid lateral distribution (Marassi, F.M. (1146) 219)

Large unilamellar vesicle; Membrane potential; Headgroup order; Phosphatidylcholine; Tetraphenylphosphonium (Leenhouts, J.M. (1153) 257)

NMR, ^{15}N-
Nitrotyrosine; Aminotyrosine; Nitrotyrosyl ribonuclease A; Nitrotyrosyl lysozyme; Tetranitromethane (Skawinski, W.J. (1162) 297)

NMR, ^{23}Na-
Gramicidin; Membrane; Transport; Phenylalanine (Hinton, J.F. (1146) 191)

Sodium ion, intracellular; (Salivary gland); (Rat) (Seo, Y. (1177) 111)

Potassium ion atomic absorption; Bacterial membrane; Monensin; 4-Chorophenylurethane-monensin; Ion selectivity; (*S. faecalis*); (*E. hirae*) (Rabaste, F. (1179) 166)

NMR, ^{31}P-
β-Guanidinopropionic acid; Creatine; Creatine kinase; Cardiac energy metabolism; (Isolated perfused rat heart) (Unitt, J.F. (1143) 91)

1-Palmitoylphosphatidylcholine; Lyso-PAF; PAF; Hexagonal H_{II} phase; DSC (Salgado, J. (1145) 284)

Membrane; Magnetic orientation; Liposome; Phosphatidylcholine; HIV; AIDS (Qiu, X. (1147) 59)

Phase equilibrium; Vesicle formation; DOPC; Glycerol/water mixture; X-ray diffraction (Johansson, L.B.-Å. (1149) 285)

Sphingosine; Stearylamine; Phosphatidylserine; DSC (López-García, F. (1153) 1)

α-Crystallin; NMR, ^{1}H-; Denaturation; Protein structure; (Bovine lens) (Carver, J.A. (1164) 22)

Polyphosphate metabolism; Cellular pH; Osmotic stress; (*N. crassa*) (Yang, Y.C. (1179) 141)

Rat liver ischemia; NMR, ^{19}F-; Liver hormone; Adenosine triphosphate (Walsh, T.R. (1181) 7)

Hepatic lymphoma; Phospholipid synthesis; Phosphoethanolamine; Phosphocholine (Dixon, R.M. (1181) 111)

Ischemia; Substrate depletion; Magnesium ion deficit; (Heart); (Muscle) (Altura, B.M. (1182) 329)

NMR, solid-state
Melittin; Phosphatidylcholine bilayer; Cholesterol; Discoidal particle; Lipid polymorphism (Monette, M. (1149) 319)

Nonactin
Cryptand; Temperature jump; Mobile carrier, ionizable and neutral; Alkali cation transport kinetics; Transport kinetics; Membrane structure (Vareille, G. (1146) 25)

Non-bilayer lipid
Vesicle leakage; Cytolysin; Lipid–protein interaction; α-Hemolysin (Ostolaza, H. (1147) 81)

Non-catalytic site
ATPase, F_1-; Catalytic site; Cooperativity; 8-Azido-adenine nucleotide; Photo affinity labeling (Edel, C.M. (1142) 327)

Nonchromaffin cell
Prostaglandin D_2; cyclic AMP; Calcium ion mobilization; (Bovine adrenal medulla) (Okuda-Ashitaka, E. (1176) 148)

Noncollagenous domain
Type IV collagen; Aorta; High pressure liquid chromatography; Western blotting; Immunofluorescence (Reddy, G.K. (1157) 241)

Non-enzymatic glycation
Aluminum; Histone H1; Nucleotide binding; Transcriptional regulation; (Rat) (Tarkka, T. (1180) 294)

Non-enzymatic glycosylation
Glycation; Lens; Crystallin; Aging (Van Boekel, M.A.M. (1159) 99)

Non-heme iron
Photosystem II; EPR, Fe^{2+}; EPR, Fe^{3+} (Deligiannakis, Y. (1140) 163)

Non-histone protein HMG1
Retropseudogene; Genomic sequence; Evolution; (Human cell) (Štros, M. (1172) 231)

Non-insulin-dependent diabetes mellitus (NIDDM)
Phospholipase C; Insulin resistance; Phosphatidylinositol 4,5-bisphosphate; Pioglitazone (Bleasdale, J.E. (1181) 240)

Non-radiative energy transfer
Liposome–polymer interaction; Cytoskeleton; Model membrane; Fluorescence; DSC; Quasi-elastic light scattering (Ringsdorf, H. (1153) 335)

Nonsteroidal antiinflammatory drug
Intestinal peroxidase; Eosinophil peroxidase; Lactoperoxidase; Horseradish peroxidase; Indomethacin; Acetylsalicylic acid (Chatterjee, R. (1161) 168)

Nopaline catabolism
Ti plasmid; Gene characterization; (*Agrobacterium tumefaciens*) (Schrell, A. (1174) 303)

Norepinephrine
Arachidonic acid; Insulin secretion; Islet of Langerhans; (Rat) (Band, A.M. (1176) 64)

Normal aorta
Atherosclerosis; Atheroma; Lipid; Oxysterol; Hydroxyoctadecadienoic acid; (Human) (Carpenter, K.L.H. (1167) 121)

Northern blot
Tetrahydrobiopterin; GTP cyclohydrolase I; Polymerase chain reaction (Gütlich, M. (1171) 133)

Northern blotting
Purification; Amino acid sequence; DNA cloning; Renal dipeptidase; Expression; (Mouse) (Satoh, S. (1163) 234)

Pancreas; mRNA; Microtubule-associated protein; PCR (Neuville, P. (1181) 317)

nPKC
Protein kinase C; β-Isotype; Pseudosubstrate; Calcium; Superoxide anion generation; p47-phox; Neutrophil (Majumdar, S. (1176) 276)

N-*ras*
Exon shipping; *unr* gene; Transcriptional interaction (Boussadia, O. (1172) 64)

N-terminal
CCMV; Coat; Protein; Nucleotide; Interaction (Wolfs, C.J.A.M. (1172) 1)

N-terminal sequence
Gene dosage; Proprotein; Dipeptidyl aminopeptidase (Peters, I.D. (1171) 247)

NTPase
mRNA efflux; Nuclear envelope; (Rat liver) (Sabbatini, G.P. (1153) 132)

Nuclear-encoded protein
Mitochondrial processing; Proteinase; Processing enhancing protein; Precursor protein; In vitro import; (Plant mitochondrion) (Eriksson, A.C. (1140) 208)

Nuclear envelope
NTPase; mRNA efflux; (Rat liver) (Sabbatini, G.P. (1153) 132)

Lamin A; Nucleotide sequence; Amino acid sequence homology (Nakajima, N. (1171) 311)

Nuclear *fus* gene
Chloroplast; Translocation factor; Elongation factor G; (Soybean) (Torres, J.H. (1174) 191)

Nuclear gene
Mitochondrion; Mitochondrial protein; Respiratory chain; Electron transport; Recombinant DNA; Nucleotide sequence analysis; mRNA (Sadlock, J.E. (1172) 223)

ATP synthase, F_0F_1-; Alpha subunit; Mitochondrion; Promoter region (Jordan, E.M. (1173) 115)

Nuclear matrix
Origin of replication; Transcription activation; Bovine papilloma virus; Harvey murine sarcoma virus; Mouse mammary tumor virus (Adom, J.N. (1171) 187)

Nuclear Overhauser effect
Troponin; (Heart) (Campbell, A.P. (1160) 35)

NMR; Myoglobin; Hyperfine shift; Heme; Heme electronic structure (Yamamoto, Y. (1163) 287)

NMR; NMR, ^{19}F-; Boronic acid; Serine proteinase; Protein dynamics (Sylvia, L.A. (1163) 321)

Nuclear polyhedrosis virus
Recombinant DNA; α_2-Adrenergic receptor; Bioluminescence; *Spodoptera frugiperda*; *Autographa californica* (Oker-Blom, C. (1176) 269)

Nuclear polyhedrosis virus
Baculovirus; (Spruce budworm) (Hill, J.E. (1172) 187)

Nuclear quadrupole interaction
MoFe protein; Nitrogenase; Storage protein; (*A. vinelandii*); (*K. pneumoniae*) (Mottner, P. (1164) 311)

Nuclear scaffold
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Nuclease
Protein stability; Free energy; Denaturation; Component analysis; Molecular dynamics; (*S. aureus*) (Yamaotsu, N. (1163) 81)

Nuclease P1
Phosphodiester bond; Hydrolysis; DNA damage (Box, H.C. (1161) 291)

Nucleation time
Cholesterol gallstone; Apolipoprotein A-I; Vesicle; Discoidal particle; Transmission electron microscopy (Tao, S. (1166) 25)

Lecithin; Vesicle; Cholesterol gallstone (Tao, S. (1167) 142)

Nucleic acid base analog
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Nucleic acid sequence
Thrombomodulin; Gene structure; Promoter region; F9 cell; (Mouse) (Niforas, P. (1173) 179)

Nucleocapsid
Fluorescence; Zinc; Zinc binding; Zinc finger structure (Mely, Y. (1161) 6)

Nucleoid
DNA binding; Histone-like protein; Supercoiling; (*B. subtilis*) (Le Hégarat, F. (1172) 101)

Nucleophile specificity
α-Chymotrypsin; Subtilisin; Quantitative structure–activity relationship; Substrate specificity (Gololobov, M.Y. (1160) 188)

Nucleoside
Sodium ion transport; Nucleoside transport; Brush-border membrane; (Human kidney) (Gutierrez, M.M. (1149) 202)

Nucleoside diphosphate diacylglycerol
HIV; AZT; ddC; 3′-Deoxythymidine (Van Wijk, G.M.T. (1165) 45)

Nucleoside diphosphate kinase
Spinach; cDNA sequence (Zhang, J. (1171) 304)

Nucleoside transport
Active transport; Nitrobenzylthioinosine; Renal epithelium; (OK cell) (Doherty, A.J. (1147) 214)

Sodium ion transport; Nucleoside; Brush-border membrane; (Human kidney) (Gutierrez, M.M. (1149) 202)

Nucleotidase
ATPase, ecto-; Purine nucleotide; Synaptosome; Ectonucleotidase; (Bovine brain) (Hohmann, J. (1152) 146)

5′-Nucleotidase
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Microsome; Endoplasmic reticulum; Light scattering; Chloride conductance; CFTR; (Pancreas); (Porcine) (Bégault, B. (1152) 319)

CCMV; Coat; Protein; N-terminal; Interaction (Wolfs, C.J.A.M. (1172) 1)

Calcium; Fura-2; ATP; Suramin; Puriceptor; (Renal proximal cultured cell) (Cejka, J.-C. (1176) 7)

Nucleotide binding
Sodium azide; ATPase, F_0F_1-; Binding inhibition; Submitochondrial particle; (Bovine heart) (Muneyuki, E. (1144) 62)

Myosin; Charge effect; Donnan potential (Bartels, E.M. (1157) 63)

RNAase T_1; Relaxation kinetics; Temperature jump; Conformational change; Isomerization (Walz, Jr., F.G. (1159) 327)

Phospho*enol*pyruvate carboxykinase; Tryptophan fluorescence; Conformational change (Encinas, M.V. (1162) 195)

Aluminum; Histone H1; Non-enzymatic glycation; Transcriptional regulation; (Rat) (Tarkka, T. (1180) 294)

Nucleotide binding phosphatase
Cyclic nucleotide; Phosphatase; Phosphotyrosine (Polya, G.M. (1159) 179)

Nucleotide binding sequence
Chaperonin; Amino acid sequence; (Rat) (Hartman, D.J. (1164) 219)

Nucleotide sequence
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Ruminant lipoprotein metabolism; cDNA; PCR (Edwards, W.D. (1172) 167)

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Lhcb gene; Chlorophyll *a*/*b*-binding protein; (*Pisum*) (Falconet, D. (1173) 333)

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Carboxylesterase; cDNA sequence; Es-male; (Mouse liver) (Aida, K. (1174) 72)

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Elongation factor; Protein synthesis; Leucine zipper (Sanders, J. (1174) 87)

5-*exo*-Hydroxycamphor dehydrogenase; *camD*; Terpene alcohol dehydrogenase; Zinc-containing alcohol dehydrogenase; (*P. putida*) (Aramaki, H. (1174) 91)

Superoxide dismutase; Phylogeny; (*Archaea*); (*Crenarchaeota*); (*Euryarchaeota*); (*S. acidocaldarius*) (Klenk, H.-P. (1174) 95)

Archaebacterium; Succinate dehydrogenase (Bach, M. (1174) 103)

Ferredoxin; Iron-sulfur protein; (*C. pasteurianum*) (Meyer, J. (1174) 108)

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Bone morphogenetic protein 4; cDNA; Tissue specificity (Chen, D. (1174) 289)

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GTP-binding protein; Palmitoylation; Prenylation; Sequence homology; (*P. polycephalum*) (Kozlowski, P. (1174) 299)

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Nucleotide sequence analysis
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Nucleotide sequencing
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Nucleus
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Nutrient transport
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Nutrition
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Nycodenz gradient
α_1-Microglobulin; Bikunin; Proprotein; Subcellular vesicle; Intracellular processing (Bratt, T. (1157) 147)

Nystatin
Amphotericin B; Pyranine; Ion current; Drug delivery; Liposome (Lambing, H.E. (1152) 185)

O

Ob 17 preadipocyte
Adipose differentiation; Hypolipidemic fibrate; Thyroid hormone (Gharbi-Chihi, J. (1177) 8)

Oct-1
POU domain; cDNA; Expression (Kambe, F. (1171) 307)

***cis*-9,*cis*-15-Octadecadienoic acid**
Butylene-interrupted dienoic fatty acid; Higher plant; Fruit pulp; (Mango) (Shibahara, A. (1170) 245)

Octadecatetraenoate
Micro-alga; Fatty acid desaturation; Monogalactosyldiacylglycerol; (*I. galbana*) (Stern, N. (1167) 248)

Octamer
Origin; Enhancer (Iguchi-Ariga, S.M.M. (1172) 73)

POU domain; Transcription factor; Homeodomain; Gene regulation; Development (Verrijzer, C.P. (1173) 1)

Octamer factor
Cysteine oxidation; DNA binding; Homeodomain; POU domain (Rigoni, P. (1173) 141)

Octyl-Sepharose chromatography
Phospholipase D; Calcium ion; Zymogram (Abousalham, A. (1158) 1)

Ocular lens
Pravastatin; Lovastatin; Cholesterol; HMG-CoA reductase inhibitor; Vastatin (De Vries, A.C.J. (1167) 63)

Oil seed
Pyruvate kinase; Enzyme regulation; Enzyme kinetics; Glycolysis; Phospho*enol*pyruvate (Podestá, F.E. (1160) 213)

Okadaic acid
Phosphorylation; Anion transport; (Human erythrocyte) (Baggio, B. (1148) 157)

CaCo-2 cell; Apolipoprotein B; Phosphorylation (Mathur, S.N. (1168) 130)

Insulin secretion; Protein phosphatase; (Islet of Langerhans) (Ratcliff, H. (1175) 188)

Gene expression; Insulin; Protein phosphatase; Signal transduction; cyclic AMP response element (Morrison, M.D. (1178) 135)

Primary cell culture; Calyculin A; Protein phosphatase-1; Glycogen; (Hepatocyte) (Pugazhenthi, S. (1179) 271)

Oleate
HepG2 cell; Smoking; Lipoprotein lipid; Epinephrine; Dexamethasone; Nicotine (Craig, W.Y. (1165) 249)

Hepatocyte monolayer; Gemfibrozil; Phosphocholine cytidylyltransferase; Phosphatidylcholine; Triacylglycerol; (Rat) (Lamb, R.G. (1165) 299)

Apolipoprotein B; Cholesteryl ester; Fluvastatin; 25-Hydroxycholesterol; (HepG2 cell) (Furukawa, S. (1170) 32)

2′,5′-Oligoadenylate
(Nagai, K. (1156) 321)

Oligodendrocyte
White matter; Axonal nerve fiber; Neurologic abnormality; Brain tissue section; Immunohistochemistry (Labelle, Y. (1180) 250)

Oligo(dT)-latex bead
Poly(A)$^+$ mRNA; Reverse transcriptase (Kuribayashi-Ohta, K. (1156) 204)

Oligomer assembly
MCAD deficiency; GroE; Chaperonin; Aggregation; Folding (Bross, P. (1182) 264)

Oligomeric structure
ATPase, Na^+/K^+-; Membrane protein; Molecular weight; Phospholipid; Association–dissociation (Mimura, K. (1145) 63)

Sodium-dependent phlorizin binding protein; Western blot analysis; Phlorizin binding; Brush-border membrane; (Kidney); (Pig) (Gerardi-Laffin, C. (1151) 99)

Microsomal glutathione transferase; Crosslinking (Lundqvist, G. (1159) 103)

Oligomycin
ATPase, Na^+/K^+-; Reaction sequence; Kinetics; Conformational change; Ion transport (Pratap, P.R. (1151) 89)

Oligomycin sensitivity
Lacticacidemia; Pyruvate dehydrogenase complex; NADH-CoQ reductase; Cytochrome oxidase; ATPase (Robinson, B.H. (1182) 231)

Oligomycin sensitivity conferring protein (OSCP)
ATP synthase; ATPase inhibitor protein; IF_1; Subunit c; Proteolipid; DNA sequence; Protein sequence (Higuti, T. (1172) 311)

Oligonucleotide
Dielectric relaxation; Melting curve; DNA defect (Bonincontro, A. (1171) 288)

Oligoribonucleotide derivative
Placenta ribosome; Initiation complex; Affinity labeling; (Human) (Mundus, D.A. (1173) 273)

Oligosaccharide
Fucosyltransferase; Hepatocyte; Human; Lewis^x (Jezequel-Cuer, M. (1157) 252)

Oligosaccharide, *N*-linked
Zona pellucida; (Mouse egg) (Noguchi, S. (1158) 217)

Omega hydroxylation
Fatty acid; ω-Hydroxylase; Arachidonic acid; Cytochrome *P*-450; Kidney microsome; (Rabbit) (Sawamura, A. (1168) 30)

Omeprazole
ATPase, H^+-; (*D. adidophila*) (Sekler, I. (1142) 88)

Parietal cell; Acid secretion; Membrane recycling; ATPase, H^+/K^+- (Scott, D.R. (1146) 73)

OmpA
Porin; Ionophore property; (*E. coli*) (Saint, N. (1145) 119)

Oncogene
Proliferation; Amino acid transport; L-Aspartate; L-Glutamate; (Fibroblast) (Bussolati, O. (1151) 153)

Oncoprotein
rel; Brachyury T gene; NFKB factor (Perrin-Schmitt, F. (1171) 129)

Oocyte
Expression; Organic anion transporter; *p*-Aminohippuric acid; Probenecid; (*X. laevis*) (Steffgen, J. (1149) 145)

Leukotriene B_4; Transporter; Microinjection; ATP (Mori, M. (1168) 23)

Retinol-binding protein; Transthyretin; Retinol; (Chicken) (Vieira, A.V. (1169) 250)

Zona pellucida; cDNA; Sperm-binding protein; cDNA sequence; Nucleotide sequence; (Pig) (Yurewicz, E.C. (1174) 211)

Oocyte expression
Chloride channel; Gene expression; A7r5; (*Xenopus*); (Rat) (Abe, T. (1173) 353)

Open reading frame
Mitochondrial import site protein; Protein translocation; Sequence comparison; (*E. coli*) (Cartwright, P. (1153) 345)

HIV-1; *gag*; p6; Protein structure; Proteinase (Stys, D. (1182) 157)

Operon
Chlorobium; ATPase, F-; Hybrid enzyme; (*E. coli*) (Xie, D.-L. (1172) 267)

Opioid peptide
Distance-geometry calculation; Restrained molecular dynamics simulation; ROESY spectrum; NMR (Chuang, L.-C. (1158) 209)

Opsin shift
Bacteriorhodopsin; Purple membrane; Delipidation; Anesthetic; Acid-base equilibrium; Schiff base (Messaoudi, S. (1140) 45)

Opsonin
Kupffer cell; Liver endothelial cell; Colloidal gold; Polystyrene microsphere; Dysopsonin; (Rat liver) (Moghimi, S.M. (1179) 157)

Optical absorbance
Platelet membrane; Primary bile salt; Leakage; Component solubility; Electron microscopy; Aggregation; (Human blood) (Shiao, Y.-J. (1146) 282)

Optic nerve
GTP-binding protein; Calcium; Cerebral cortex; Clathrin-coated vesicle (Bielinski, D.F. (1151) 246)

Optoacoustic spectroscopy
Photosynthesis; Light harvesting complex; Energy quenching; Fluorescence quenching; Heat evolution (Mullineaux, C.W. (1143) 235)

Orbital fibroblast
Interferon γ; Fibronectin; Collagen; Cytokine (Higgins, P.J. (1181) 23)

Order parameter
Protein–lipid interaction; Supported bilayer; FTIR; NMR; DSC (Reinl, H.M. (1151) 127)

O_2^- release
Cellular swelling; Plasma membrane; Cytoskeleton; Neutrophil; (Guinea pig) (Miyahara, M. (1177) 61)

Organic anion transporter
Oocyte; Expression; *p*-Aminohippuric acid; Probenecid; (*X. laevis*) (Steffgen, J. (1149) 145)

Organic sulfhydryl reagent; Dithiobis(2-nitrobenzoic acid) derivative; Binding protein; Loop diuretic; (Liver) (Blumrich, M. (1149) 278)

Organic cation
Renal transport; Tetraethylammonium; Ischemic injury; Reperfusion; Brush-border membrane (Maeda, S. (1150) 103)

Brush-border membrane; Membrane potential; Transport; (Rat intestine) (Iseki, K. (1152) 9)

Organic cation transport
Chemical modification; Substrate recognition; Basolateral membrane; Brush-border membrane; (Rat kidney) (Katsura, T. (1146) 197)

Organic medium
Enzyme activation; Low water activity (Adlercreutz, P. (1163) 144)

Organic osmolyte
Choline metabolism; Phosphatidylcholine; Glycerophosphorylcholine; Metabolic pathway; Collecting duct; IMCD cell; (Rat kidney) (Bauernschmitt, H.G. (1148) 331)

Osmoregulation; Glycerophosphorylcholine metabolism; Glycerophosphorylcholine:choline phosphodiesterase; (Rat kidney); (Collecting duct); (IMCD cell) (Bauernschmitt, H.G. (1150) 25)

Organic solvent
Water activity; Chymotrypsin; Ester synthesis (Blanco, R.M. (1156) 67)

Antigen-antibody reaction; Antitestosterone antiserum; Sterical effect (Giraudi, G. (1157) 211)

Organic sulfhydryl reagent
Organic anion transporter; Dithiobis(2-nitrobenzoic acid) derivative; Binding protein; Loop diuretic; (Liver) (Blumrich, M. (1149) 278)

Organotechnetium compound
Lipophilic cationic probe; Isonitrile; Valinomycin; Membrane potential; Large unilamellar vesicle; Radionuclide (Chernoff, D.M. (1147) 262)

Origin
Octamer; Enhancer (Iguchi-Ariga, S.M.M. (1172) 73)

Transcript; cDNA; Sequence; DNA replication; (Mammalian) (Wu, C. (1174) 241)

Transcript; cDNA; DNA replication; Initiation zone; (Mammalian) (Wu, C. (1174) 258)

Origin of replication
Nuclear matrix; Transcription activation; Bovine papilloma virus; Harvey murine sarcoma virus; Mouse mammary tumor virus (Adom, J.N. (1171) 187)

Ornithine decarboxylase
Polyamine; L-Arginine; L-Glutamine; Isolated enterocyte; (Newborn pig) (Blachier, F. (1175) 21)

Ornithine uptake
Gluconeogenesis; Ureogenesis; Perfused liver (Martín-Requero, A. (1158) 166)

Osmoregulation
Organic osmolyte; Glycerophosphorylcholine metabolism; Glycerophosphorylcholine:choline phosphodiesterase; (Rat kidney); (Collecting duct); (IMCD cell) (Bauernschmitt, H.G. (1150) 25)

GTP-binding protein; Small GTP-binding protein; Vesicular trafficking; Cell volume control; (*D. salina*) (Memon, A.R. (1179) 11)

Osmotic response
Liposome permeability; *N*-Acylethanolamine phospholipid; Model membrane; Phosphatidylcholine; Cholesterol (Domingo, J.C. (1148) 308)

Osmotic sensitivity
Phosphatidylcholine; Unilamellar vesicle; Salt gradient; Thermodynamic stability (Lerebours, B. (1152) 49)

Osmotic stress
NMR, ^{31}P-; Polyphosphate metabolism; Cellular pH; (*N. crassa*) (Yang, Y.C. (1179) 141)

Osmotic swelling
Electrical breakdown; Cell fusion; Hemolysis; Divalent cation; Phospholipid asymmetry; (Erythrocyte) (Song, L.Y. (1148) 30)

Osteoblast
Potassium ion current; Vitamin D-3; cyclic GMP (Chesnoy-Marchais, D. (1148) 239)

Osteogenic growth peptide; Growth factor; Histone H4; Fibroblast; Binding protein (Greenberg, Z. (1178) 273)

Osteoblastic cell
Homeobox; Bone; Vitamin D (Hodgkinson, J.E. (1174) 11)

Osteoclast
Differentiation; Active oxygen; Bone resorption (Suda, N. (1157) 318)

Adhesion molecule; LFA-1; ICAM-1; Development (Kurachi, T. (1178) 259)

Osteogenic growth peptide
Growth factor; Histone H4; Osteoblast; Fibroblast; Binding protein (Greenberg, Z. (1178) 273)

Osteosarcoma
Parathyroid hormone receptor; Renal membrane; Receptor characterization; (Rat); (Kidney); (UMR-106 cell) (Kaufmann, M. (1179) 197)

Ouabain affinity
ATPase, Na^+/K^+-; Isoenzyme; Sodium ion sensitivity; α-Linolenic acid; Brain membrane; Diet; (Weaned rat) (Gerbi, A. (1165) 291)

Outer membrane protein
Phosphate specificity; Anion channel; Single-channel conductance; Lipid bilayer membrane; (*P. aeruginosa*) (Benz, R. (1149) 224)

Outer mitochondrial membrane
Mitochondrion; Dextran; Hexokinase; Compartmentation; Contact site; Intermembrane space (Wicker, U. (1142) 228)

Ovalocyte
Rotational diffusion; Erythrocyte membrane; Band 3; Time-resolved phosphorescence anisotropy; Erythrocyte morphology (Tilley, L. (1181) 83)

Ovarian cancer
Urokinase-type plasminogen activator; Urokinase-type plasminogen activator receptor; Cathepsin B; Membrane protein (Kobayashi, H. (1178) 55)

Ovarian interstitial tissue
Calcium-binding protein; Calretinin; (Rat) (Pohl, V. (1160) 87)

OVCAR-3
CAOV-3; EGF receptor; Receptor phosphorylation; Cell proliferation (Zhou, L. (1180) 130)

Overexpression vector
Luciferase; Firefly; Bioluminescence; Luciferin; Coenzyme A (Devine, J.H. (1173) 121)

Oxalate
Oxalate oxidase; Grain sorghum; Urinary oxalate (Satyapal, (1161) 1)

Oxalate oxidase
Oxalate; Grain sorghum; Urinary oxalate (Satyapal, (1161) 1)

Oxidant
Potassium/chloride cotransport; Potassium ion channel, calcium-activated; Sulfhydryl group; Sickle-cell anemia; (Human erythrocyte) (Olivieri, O. (1176) 37)

Oxidase
Terminal oxidase; Cytochrome *a*; Cytochrome *o*; Alkalotolerant bacterium; (*Bacillus FTU*) (Muntyan, M.S. (1143) 142)

Oxidase activation
NADPH oxidase; Cytochrome *b*-245; Cytosolic factor; Chronic granulomatous disease; EBV-B lymphocyte (Morel, F. (1182) 101)

Oxidation
Sodium nitroprusside; Cyanide release; Monocyte; Polymorphonuclear Leukocyte (Campbell, J.M. (1156) 327)

Kynurenine; Pulse radiolysis; Reduction (Atherton, S.J. (1158) 75)

Methionine; Methionine sulfoxide; Dithiothreitol; Histidine; Hydroxyl radical (Schöneich, C. (1158) 307)

Hemoglobin; Thiol; Gold thiol; Zinc; Copper (Potuznik, S. (1164) 289)

LDL; Albumin; Antioxidant; (Human) (Dobrian, A. (1169) 12)

Glutathione; Catalase; NADPH; Hydrogen peroxide; Glucose-6-phosphate dehydrogenase; (Erythrocyte) (Scott, M.D. (1181) 163)

β-Oxidation
High fat diet; Fatty acid content; Peroxisome; Mitochondrion; Liver; Heart; (Rat) (Vamecq, J. (1170) 151)

Oxidation dynamics
LDL; Free radical; Lipid oxidation; Reaction mechanism (Noguchi, N. (1168) 348)

Oxidative damage
D1 protein; Electron transport; Light stress; Photosystem II; Reaction center; Proteolysis (Aro, E.-M. (1143) 113)

Stored erythrocyte; Immunoglobulin G binding; Anti-band 3; Band 3 oligosaccharide; Glutathione; (Erythrocyte) (Ando, K. (1178) 127)

Oxidative phosphorylation
Energy conservation; Efficiency; Mitochondrion; (Potato tuber) (Groen, B.H. (1140) 37)

Metabolism control; Muscle mitochondrion; Myopathy; Mitochondrial myopathy (Letellier, T. (1141) 58)

ATPase/ATPsynthase; Almitrine; Lipid composition; Age; (Rat liver mitochondrion) (Jumelle-Laclau, M. (1141) 90)

AU-1421; Uncoupler; Protonophore; (Rat mitochondria) (Nagamune, H. (1141) 231)

Phosphocreatine; Creatine kinase; ATP/ADP translocase; Mitochondrion; Mathematical modeling; Heart (Aliev, M.K. (1143) 291)

a subunit; ATPase, F_0F_1-; Structure stabilization; Proline; Site-directed mutagenesis; (*E. coli*) (Howitt, S.M. (1144) 17)

Skeletal muscle; Saponin-skinned fiber; Fluorescence microscopy; Mitochondrial myopathy; Mitochondrial encephalomyopathy; (Human) (Kunz, W.S. (1144) 46)

Cardiomyocyte; Mitochondrion; ADP; Compartmentation; Creatine kinase (Saks, V.A. (1144) 134)

Calcium ionophore A23187; ATP depletion; Calcium; Enzyme release; Glycolysis; (Fibroblast) (Kristensen, S.R. (1179) 23)

Mitochondrion; Inborn error; Lactic acidosis; Respiratory chain (Wanders, R.J.A. (1181) 219)

Oxidative photophosphorylation
ATP synthase; Photophosphorylation; Binding change; Alternating site; Catalytic cooperativity (Boyer, P.D. (1140) 215)

Oxidative stress
Kidney zone; Antioxidant; Chemiluminescence; Ischemia-reperfusion (Gonzalez-Flecha, B. (1157) 155)

Glutathione peroxidase; Glutathione *S*-transferase; (*H. mrakii*) (Tran, L.-T. (1164) 166)

Two-cell block; $p34^{cdc2}$; Cell cycle; Superoxide dismutase; Thioredoxin; (Mouse embryo) (Natsuyama, S. (1176) 90)

Ascorbate; Dehydroascorbate; Reactive oxygen species; (Mouse) (Iheanacho, E.N. (1182) 15)

Oxidized LDL
Simvastatin; Macrophage; LDL (Giroux, L.M. (1165) 335)

Oxidoreductase
Cellobiose oxidase; Hydrogen peroxide; Heme; Flavin; Lignocellulose; (*P. chrysosporium*) (Henriksson, G. (1144) 184)

Oxidoreduction
Ubiquinone; Microsome (Shigemura, T. (1141) 213)

Oxido-reduction state
Oxygenation; Pyridine nucleotide; Liver transplantation; (Human) (Tanaka, A. (1182) 250)

Oxime
Aryl sulfotransferase; Sulfotransferase; Sulfation; Substituent effect (Mangold, J.B. (1163) 217)

2-Oxoglutarate / malate translocator
Chloroplast; Dicarboxylate transport; Reconstitution (Menzlaff, E. (1147) 13)

Oxonol
Liposome; Ion flux; Membrane potential; Permeability; Fluorescent probe; PBFI; Pyranine (Venema, K. (1146) 87)

Oxygen-18
Carbonic anhydrase; Carbon dioxide; Proton transfer (Taoka, S. (1159) 274)

NMR, ^{1}H-; Myoglobin; Hemoglobin; (Human heart) (Kreutzer, U. (1161) 33)

EPR; Nitroxide metabolism; Reduction rate, in vivo (Quaresima, V. (1182) 115)

Oxygen affinity
Hemoglobin; Multiple emulsion; Viscosity; Exchange-transfusion; Stability (Zheng, S. (1158) 65)

Hemoglobin; Cooperativity; (*H. medicinalis*) (Ilan, E. (1162) 77)

Hemoglobin; Polycythemia (Wajcman, H. (1180) 53)

Oxygenation
Oxido-reduction state; Pyridine nucleotide; Liver transplantation; (Human) (Tanaka, A. (1182) 250)

***N*-Oxygenation**
Cytochrome *P*-4502B4; *N*,*N*-Dimethylaniline; (Rabbit liver microsomes) (Hlavica, P. (1158) 83)

Oxygen binding
Cytochrome *o*; Quinol oxidase; Carbonyl cytochrome; Potentiometry; (*E. coli*) (Bolgiano, B. (1141) 95)

Oxygen carrier
Hb function; Allosteric transition; Protein engineering (Baudin, V. (1159) 223)

Hemocyanin; Ligand binding; Cooperativity; (*P. clarki*) (Makino, N. (1162) 237)

Oxygen damage
Nickel; Iron; EPR; Spin quantitation; (*C. thermoaceticum*) (Shin, W. (1161) 317)

Oxygen evolution
Thermoluminescence; Herbicide resistance; D1 protein; Photosynthesis; (*Synechococcus* PCC7942) (Gleiter, H.M. (1140) 135)

Phycobiliprotein; Asparagine methylation; Posttranslational modification; Photosystem II (Thomas, B.A. (1143) 104)

FTIR; Photosystem II; Cytochrome *b*-559 (Noguchi, T. (1143) 333)

Hydroxylamine; Hydrazine; S state; Absorption change; Mass spectrometry; (*Synechococcus* sp.) (Kretschmann, H. (1144) 331)

Nucleotide sequence; Manganese-stabilizing protein; *psbO*; (*S. elongatus*) (Miura, K. (1172) 357)

Oxygen-evolving complex
Photosystem II; Manganese; EPR, pulsed; Electron spin echo (Britt, R.D. (1140) 95)

Photosystem II; Manganese stabilizing protein; (*Prochlorothrix*) (Mor, T.S. (1141) 206)

Manganese cluster; Photosystem II; Glycinebetaine (Mohanty, P. (1144) 92)

Oxygen radical
Antioxidant; Iron-binding protein; Iron oxidizing protein (Gutteridge, J.M.C. (1156) 144)

Chemiluminescence; Light emission; Rat liver microsome; Ferritin; Paraquat (Puntarulo, S. (1157) 1)

Antioxidant; Iron-binding protein; Iron-oxidizing protein; (Human plasma) (Gutteridge, J.M.C. (1159) 248)

Hexose monophosphate shunt; Glucose; Lipopolysaccharide; Glutathione; (Liver) (Spolarics, Z. (1179) 134)

Ischemia; NADH-fluorescence; Fatty acid; (Rat heart) (Hulsmann, W.C. (1181) 273)

Oxygen toxicity
NAD(P)H : quinone reductase; DT-Diaphorase; Antioxidant enzyme; Superoxide dismutase; Catalase; Glutathione reductase; Lung (Whitney, P.L. (1156) 275)

Oxygen transport
Bovine hemoglobin; Divinyl sulfone; Chemically modified hemoglobin; Retention time (Ilan, E. (1163) 257)

Oxygen uptake
Cyanide-insensitive oxygen uptake; Pyridine nucleotide dehydrogenase; Cyanobacterium; Photosynthesis; (*Anabaena* PCC 7120) (Howitt, C.A. (1141) 313)

Oxylipin
Lipoxygenase; Jasmonic acid; Stress (Hamberg, M. (1165) 1)

Oxysterol
Atherosclerosis; Atheroma; Normal aorta; Lipid; Hydroxyoctadecadienoic acid; (Human) (Carpenter, K.L.H. (1167) 121)

27-Hydroxycholesterol; 27-Hydroxylase; Diet; LDL (Hasan, S.Q. (1182) 299)

P

p6
HIV-1; *gag*; Protein structure; Proteinase; Open reading frame (Stys, D. (1182) 157)

p11
S-100 protein; Annexin II; Calpactin I; Calcium ion binding; Acrylodan (Bianchi, R. (1160) 67)

p34^{cdc2}
Casein kinase-2; Phosphorylation (Meggio, F. (1164) 223)

Two-cell block; Cell cycle; Superoxide dismutase; Thioredoxin; Oxidative stress; (Mouse embryo) (Natsuyama, S. (1176) 90)

P36
Autophosphorylation; Succinyl-CoA; (*D. discoideum*) (Anschutz, A.L. (1162) 40)

p47-phox
Protein kinase C; β-Isotype; nPKC; Pseudosubstrate; Calcium; Superoxide anion generation; Neutrophil (Majumdar, S. (1176) 276)

p94
Calpain; Calcium; Cysteine proteinase; Evolution (Sorimachi, H. (1160) 55)

P680
Photosystem II; Reaction center; Photoinhibition; β-Carotene; Primary donor (De Las Rivas, J. (1142) 155)

Photosystem II; Reaction center; Photosynthesis; Singlet oxygen; Triplet state; Luminescence (Macpherson, A.N. (1143) 301)

PAF
1-Palmitoylphosphatidylcholine; Lyso-PAF; Hexagonal H_{II} phase; DSC; NMR, ^{31}P- (Salgado, J. (1145) 284)

Free fatty acid; Aggregation; (Rabbit platelet) (Siafaka-Kapadai, A. (1166) 217)

Phosphatidylcholine; Polyunsaturated fatty acid; Lipid peroxidation; GC-MS (Tanaka, T. (1166) 264)

CIS-19; Receptor (Ko, F.-N. (1175) 225)

Calphostatin C; Protein kinase C inhibitor; Phospholipase A_2; Aggregation; Neutrophil activation (Svetlov, S. (1177) 75)

Palate
Buccal; Ceramide; Epidermis; Gingiva; Lipid (Chang, F. (1150) 98)

Paliurine B
Ionophore; ROESY spectrum; Distance-geometry calculation; Restrained energy minimization; Rotating frame nuclear Overhauser effect (Yu, C. (1156) 334)

Pallidin
Erythrocyte membrane; Band 4.2; Phosphorylation; Membrane protein (Dotimas, E. (1148) 19)

Palmitic acid
Phospholipid molecular species; Phosphatidylcholine; Phosphatidylethanolamine; Stearic acid; Hepatocyte; (Rat) (Woldseth, B. (1167) 296)

Palmitoleic acid
Stearoyl desaturase; Palmitoyl-ACP; Palmitoleoyl-ACP; Δ^9-Desaturase (Gibson, K.J. (1169) 231)

Palmitoleoyl-ACP
Stearoyl desaturase; Palmitoyl-ACP; Δ^9-Desaturase; Palmitoleic acid (Gibson, K.J. (1169) 231)

Palmitoyl-ACP
Stearoyl desaturase; Palmitoleoyl-ACP; Δ^9-Desaturase; Palmitoleic acid (Gibson, K.J. (1169) 231)

Palmitoylation
GTP-binding protein; Prenylation; Sequence homology; (*P. Polycephalum*) (Kozlowski, P. (1173) 357)

GTP-binding protein; Prenylation; Sequence homology; Nucleotide sequence; (*P. polycephalum*) (Kozlowski, P. (1174) 299)

Palmitoyl-CoA synthetase
Hepatoma cell; Isolated hepatocyte; 3-Thia fatty acid; Dexamethasone; Insulin; (Rat) (Wu, P. (1170) 118)

1-Palmitoylphosphatidylcholine
Lyso-PAF; PAF; Hexagonal H_{II} phase; DSC; NMR, ^{31}P- (Salgado, J. (1145) 284)

Pancreas
Microsome; Endoplasmic reticulum; Light scatter; Anion exchanger; Nucleotide (Bégault, B. (1146) 183)

Carboxyl ester lipase; Lysophospholipase (Duan, R.-D. (1167) 326)

Phospholipase A_2; Cell proliferation; Icosanoid; Cytosol; (Porcine) (Tokumoto, H. (1169) 236)

mRNA; Microtubule-associated protein; Northern blotting; PCR (Neuville, P. (1181) 317)

Pancreatic acini
Chronic ethanol; Transcription; Translation (Ponnappa, B.C. (1158) 113)

Pancreatic islet
Parotid cell; D-glucose (Sener, A. (1177) 54)

Pancreatic lipase
Icosapentaenoic acid; Docosahexaenoic acid; (Man) (Krokan, H.E. (1168) 59)

Pancreatic phospholipase A_2
Competitive inhibition; Ultraviolet difference absorption spectroscopy; 2-Acylamino phospholipid; Phospholipase A_2; Lipolysis (De Haas, G.H. (1167) 281)

Pancreatic ribonuclease gene
Mobility shift assay; DNAase I footprinting; (Bovine) (Carsana, A. (1171) 147)

Pancreatitis-associated protein
cDNA; Gene expression; (Human); (Mouse) (Itoh, T. (1172) 184)

Pantoprazole
ATPase, H^+/K^+-; Gastric acid secretion; Topology; Conformation (Shin, J.M. (1148) 223)

Papain
Cysteine proteinase; Hydrogen bonding; Cooperativity; Binding energy; Kinetic specificity; Enzyme inhibition (Liu, S. (1158) 264)

Active site; Substrate protection; Protein denaturation; Protein conformation; Protein unfolding (Xiao, J. (1164) 54)

Paper electrophoresis
Glutathione; Urocanic acid; Imidazole compound; Mass spectrometry; (Human urine) (Kinuta, M. (1157) 192)

Paraquat
Chemiluminescence; Light emission; Rat liver microsome; Ferritin; Oxygen radical (Puntarulo, S. (1157) 1)

Parasteric binding
Isozyme; Acid phosphatase; ACP1; Kinetics; Effector; Phenotypic difference (Dissing, J. (1162) 275)

Parathyroid hormone
RIA; Protein characterization; (Parathyroid gland) (Connor, C. (1178) 81)

Parathyroid hormone receptor
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Parathyroid hormone-related protein
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Pardaxin
Membrane perturbation; Hydrophobic peptide; Fluorescence spectroscopy; Membrane association; Binding; Peptide toxin; Model membrane (Saberwal, G. (1151) 43)

Parietal cell
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Parinaric acid
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***trans*-Parinaric acid**
ATPase, Ca^{2+}-; Lipid; Perturbation (Kalabokis, V.N. (1147) 35)

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Particle size
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Partition coefficient
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Intestinal epithelium; Drug transport; HT29 (Wils, P. (1177) 134)

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Amphotericin B; Potassium ion channel; Toxicity; (MDCK cell) (Hsu, S.-F. (1152) 189)

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PBFI
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Lipid transfer protein activity; Reducing conditions; Renaturation; Electrophoretic mobility; (Maize) (Grosbois, M. (1170) 197)

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Ruminant lipoprotein metabolism; Nucleotide sequence; cDNA (Edwards, W.D. (1172) 167)

Topoisomerase II; Sequence comparison; (HeLa cell) (Austin, C.A. (1172) 283)

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Pentraxin
C-reactive protein; P-component; Amyloid; Acute phase; Inflammation (Swanson, S.J. (1160) 309)

PEP-dependent mannitol : phosphotransferase system
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Peptide–bilayer interaction
Helical peptide; Bilayer membrane; Membrane-spanning peptide; Peptide assembly (Otoda, K. (1150) 1)

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Amino terminal protecting group; α-Chymotrypsin; Partition parameter; Hydrophobicity; Molecular ovality (Calvet, S. (1164) 189)

Peptide toxin
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Peracid
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Peroxisome
Sterol carrier protein; Lipid transfer; Peroxisomal membrane; (*S. cerevisiae*) (Tahotna, D. (1148) 173)

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Phase equilibrium
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Phenobarbital
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Phenylalanine hydroxylase expression
Diabetes; Phenylalanine hydroxylase; Vanadate (Green, A.K. (1180) 21)

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NK cell; Signal transduction; Zeta chain (Bajpai, A. (1177) 291)

Phenylglyoxal
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Phenytoin
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Triplet state; Photosystem II; D1-D2-cyt *b*-559 complex; Chlorophyll *a*; Absorbance spectrum (Van der Vos, R. (1140) 184)

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Ethanol; Phosphatidylethanolamine; Phospholipase D (Kiss, Z. (1175) 88)

Arachidonic acid; Protein kinase C; Signal transduction; Tumor promotion; (Rat brain) (Huang, X.P. (1175) 351)

Phosphate transport; Protein kinase C; cyclic-AMP-dependent protein kinase; Forskolin; (NIH 3T3 cell) (Oláh, Z. (1176) 333)

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Phosphate
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Phosphate carrier
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Phosphate specificity
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Protein kinase C; cyclic-AMP-dependent protein kinase; Phorbol ester; Forskolin; (NIH 3T3 cell) (Oláh, Z. (1176) 333)

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Phosphatidic acid phosphohydrolase; Neutrophil; Signal transduction; Second messenger regulation (Taylor, G.S. (1175) 219)

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Phosphatidic acid phosphohydrolase
Phosphatidic acid; Neutrophil; Signal transduction; Second messenger regulation (Taylor, G.S. (1175) 219)

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Photocycle intermediate
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Photoreactive derivative
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Photoreception
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Photoreceptor
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Cytochrome *b*-559; Reaction center; Redox potential; Photosynthesis (Ahmad, I. (1143) 239)

Reaction center; Photosynthesis; Singlet oxygen; Triplet state; P680; Luminescence (Macpherson, A.N. (1143) 301)

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Phototransformation
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Phycobiliprotein
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Phycocyanin
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Phylloquinone
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Physiology
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Protein conformation; *N*-(9-Acridinyl)maleimide; Fluorescent probe; Photoreceptor; (*P. sativum*) (Yamamoto, K.T. (1163) 227)

Phytohemagglutinin
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Plasmenylcholine
Plasmalogen biosynthesis; Plasmenylethanolamine (Blank, M.L. (1166) 309)

Plasmenylethanolamine
Plasmalogen biosynthesis; Plasmenylcholine (Blank, M.L. (1166) 309)

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Plasminogen; Small angle scattering; Molecular model (Ponting, C.P. (1159) 155)

Plasminogen activator
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Plasminogen; Plasminogen activator inhibitor-1; Tissue-type plasminogen activator; Urokinase; Reversible binding (Mimuro, J. (1160) 325)

Pro-urokinase; Urokinase; Thermolysin (Marcotte, P.A. (1161) 105)

Tissue-type plasminogen activator; Protein characterization; Electron microscopy; Molecular weight (Margossian, S.S. (1163) 250)

Plasminogen activator inhibitor-1
Plasminogen; Plasminogen activator; Tissue-type plasminogen activator; Urokinase; Reversible binding (Mimuro, J. (1160) 325)

Macrophage plasminogen activator; Zymography; Thioglycollate; Lipopolysaccharide; Dexamethasone; (Mouse) (Kung, S.K.P. (1176) 113)

Plasmingen activator; Connective tissue; Substance P; Gene expression (Murphy, P.G. (1182) 205)

Plasminogen activator, urokinase type
Tissue plasminogen activator; Polarity; (FRT cell); (MDCK cell); (CaCo-2 cell) (Canipari, R. (1175) 1)

Plastocyanin
Cytochrome *f*; Chromatography (Morand, L.Z. (1141) 105)

Antifreeze protein; Antifreeze glycoprotein; Cryotoxicity; Freeze-thaw damage; Thylakoid; (Spinach) (Hincha, D.K. (1146) 258)

Plastoquinone
Fluorescence induction; Photosystem II; Chlorophyll fluorescence; Photosystem II heterogeneity (Hsu, B.-D. (1140) 30)

Linear dichroism; α-Tocopherol quinone; Langmuir-Blodgett film (Kruk, J. (1142) 6)

Plastoquinone-9
Photosystem II; Primary quinone acceptor; Q_A; Reconstitution; FTIR (Araga, C. (1142) 36)

Plastoquinone: plastocyanin oxidoreductase
Proteoliposome; ATP synthase, H^+-; Energy transduction; Proton pumping; Cyanobacterium; (*Synechococcus* 6716) (Krenn, B.E. (1140) 271)

Platelet
Alamethicin; ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; Brain microsome; Sarcoplasmic reticulum; Proteoliposome; Bilayer lipid membrane (Ritov, V.B. (1148) 257)

DNA topoisomerase I; Mitochondrion; Scleroderma; Topotecan; (Human) (Kosovsky, M.J. (1164) 101)

Polyclonal antibody; Phospholipase; Thromboxane A_2 (Hashimoto, K. (1165) 27)

Calpain I; ATP; Thrombin (Ishii, H. (1175) 37)

Cytosolic calcium; Copper deficiency; Thrombin; Fura-2; (Rat) (Johnson, W.T. (1175) 263)

Sodium; Sodium ion–proton exchange; Thrombin; Epinephrine; Hypertension (Stamouli, V. (1176) 215)

MAP kinase; S6 kinase; Platelet activating factor (Samiei, M. (1176) 287)

Megakaryoblastic cell; PMA; GPIb; Glycoprotein; Membrane (Moroi, M. (1177) 139)

Phenolic compound; Diphenylhexatriene; Fluorescence; Membrane fluidity; Adenylate cyclase; (Bovine blood) (Kitagawa, S. (1179) 277)

12-Lipoxygenase; Polymerase chain reaction; Enzyme immunoassay; Enzyme deficiency; Myeloproliferative disorder (Matsuda, S. (1180) 243)

Platelet-activating factor
Cholinephosphotransferase; Acetyltransferase; Microsome; Cerebral cortex; (Rabbit) (Baker, R.R. (1170) 157)

Enzyme activity; Biosynthesis; Subcellular distribution; (*T. pyriformis*) (Tsoukatos, D.C. (1170) 258)

Platelet activating factor
MAP kinase; S6 kinase; Platelet (Samiei, M. (1176) 287)

Calcium ion uptake; Manganese ion; Cytochrome *P*-450 (Montero, M. (1177) 127)

Platelet activation
Calcium; Exocytosis; Fluorescent membrane probe; TMA-DPH; Transbilayer movement (Heemskerk, J.W.M. (1147) 194)

Polyunsaturated fatty acid; Phospholipid; Plasma membrane; Hydrogenation (Joo, F. (1149) 231)

Membrane vesiculation; Aminophospholipid translocase; Thrombin; Bilayer balance model; Phospholipid (Brunauer, L.S. (1152) 109)

Platelet aggregation
ATP diphosphohydrolase; Apyrase; Vascular smooth muscle cell; Purine nucleotide (Côté, Y.P. (1160) 246)

Platelet aggregation inhibitor
cDNA sequence; Hemorrhagic protein; Precursor protein; (*C. rhodostoma*) (Au, L.-C. (1173) 243)

Platelet-derived endothelial cell growth factor PD-ECGF
Enzyme immunoassay; Gliostatin (Hirano, T. (1176) 299)

Platelet-derived growth factor
Phospholipase C; Bombesin; Tyrosine kinase; G protein (Imoto, M. (1166) 188)

Extracellular domain; cDNA cloning; PCR; Baculovirus (Herren, B. (1173) 294)

Insulin; Glucose transport; Mitogen; (Mouse fibroblast) (Merrall, N.W. (1177) 191)

Arachidonic acid release; Protein kinase C; Free calcium ion; Fibroblast (Chow, S.C. (1179) 81)

Platelet function
LDL; (Human) (Surya, I.I. (1165) 19)

Platelet membrane
Primary bile salt; Optical absorbance; Leakage; Component solubility; Electron microscopy; Aggregation; (Human blood) (Shiao, Y.-J. (1146) 282)

Platelet Membrane
Purinoceptor; ATP; Extracellular ATP (Soslau, G. (1177) 199)

Platelet microparticle
Coagulation; Phospholipid asymmetry; Sickle cell; Scott syndrome; Anti-phospholipid antibody (Zwaal, R.F.A. (1180) 1)

PMA
Platelet; Megakaryoblastic cell; GPIb; Glycoprotein; Membrane (Moroi, M. (1177) 139)

Poikilotherm
Cold adaptation; Elastase; Serine proteinase; (*G. morhua*) (Ásgeirsson, B. (1164) 91)

Point mutation
α-L-Fucosidase; Lysosomal storage disease; Fucosidosis; Pedigree analysis; DNA sequencing (Yang, M. (1182) 245)

Polarity
Choline; Hemicholinium (HC-3); Epithelial cell; Transport system; (MDCK cell) (Zlatkine, P. (1153) 237)

Plasminogen activator, urokinase type; Tissue plasminogen activator; (FRT cell); (MDCK cell); (CaCo-2 cell) (Canipari, R. (1175) 1)

Polarized fluorescence
Actin; Regulated filament; Tropomyosin; Protein conformation; Dynamics (Borovikov, Y.S. (1163) 280)

Polarizing microscopy
Bacteriophage; Coat protein; EPR; Macroscopic ordering; Reconstituted lipid-protein system; (M13) (Ottaviani, M.F. (1152) 171)

Polar metabolite
β-Carotene; Intestinal perfusion; Portal vein; Retinoic acid (Wang, X.-D. (1167) 159)

Poly(ADP-ribose) glycohydrolase
Poly(ADP-ribosyl)ation; Enzyme inhibition; Tannin; Ellagitannin; Structure–activity relationship (Aoki, K. (1158) 251)

Poly(ADP-ribose) polymerase
Expression; Immunoblotting; DNA binding; NAD^+; (*E. coli*) (Thibodeau, J. (1163) 49)

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Poly(ADP-ribose) synthetase
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Poly(ADP-ribosyl)ation
Poly(ADP-ribose) glycohydrolase; Enzyme inhibition; Tannin; Ellagitannin; Structure–activity relationship (Aoki, K. (1158) 251)

Poly(ADP-ribosyl)transferase
Cell cycle; Thymocyte; Enzyme expression; (Rat) (Wein, K.-H. (1176) 69)

Polyamine
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Spermidine/spermine N^1-acetyltransferase; Liver regeneration (Ferioli, M.E. (1156) 291)

L-Arginine; L-Glutamine; Ornithine decarboxylase; Isolated enterocyte; (Newborn pig) (Blachier, F. (1175) 21)

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Polyamine acetylation
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Polyamine metabolism
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S-Adenosylmethionine synthetase; *S*-Adenosylmethionine; Methionine analog; (*T. brucei*) (Yarlett, N. (1181) 68)

Polyamine uptake
Spermine; Spermidine; Putrescine; Polyamine; Brush-border membrane vesicle; (Rat intestine) (Kobayashi, M. (1151) 161)

Poly(A)$^+$ mRNA
Reverse transcriptase; Oligo(dT)-latex bead (Kuribayashi-Ohta, K. (1156) 204)

Polyanion
Mitochondrion; Porin; VDAC; Reconstitution; Liposome (Báthori, G. (1145) 168)

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Poly(1-benzyl-L-histidine)
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Polycation
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Polychlorinated biphenyl
Structure-function; Heterologous expression; Androstenedione; Androstenedione hydroxylation; Cytochrome *P*-450 (Kedzie, K.M. (1164) 124)

Polyclonal antibody
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Xanthine oxidase; Immunohistochemical localization; Reperfusion injury; (Human); (Liver) (Moriwaki, Y. (1164) 327)

Platelet; Phospholipase; Thromboxane A_2 (Hashimoto, K. (1165) 27)

Polycythemia
Hemoglobin; Oxygen affinity (Wajcman, H. (1180) 53)

Polyelectrolyte
Acetylcholinesterase; Salt effect (Tõugu, V. (1157) 199)

Polyene antifungal antibiotic
NMR, ^{1}H-; Circular dichroism; Aggregation; Amphotericin B (Balakrishnan, A.R. (1148) 269)

Poly(ethylene glycol)
Sendai virus; Membrane fusion; Liposome; Glycosaminoglycan; Dextran sulfate (Zschörnig, O. (1148) 1)

Liposome; Circulation half-life; Technetium; Indium (Tilcock, C. (1148) 77)

Plasminogen; Long-circulating liposome; Liposome; Cryptosome; Protein binding; Drug targeting; Biodistribution (Blume, G. (1149) 180)

Biodistribution; Liposome; Pharmacokinetics; Subcutaneous administration; Liposome size (Allen, T.M. (1150) 9)

Polyglutamate
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Polyglycosylceramide
Complex glycosphingolipid; Erythrocyte; FABMS; HPLC; Purification; (Human) (Miller-Podraza, H. (1168) 330)

Polyisoprenoid
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Polymerase chain reaction
Pigeon lens; δ-Crystallin; Argininosuccinate lyase; Glycogen; Sequence comparison; (*C. livia*) (Chiou, S.-H. (1160) 317)

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Tetrahydrobiopterin; GTP cyclohydrolase I; Northern blot (Gütlich, M. (1171) 133)

Carcinogenesis; Transcription; Cytochrome *P*-450 (Traber, P.G. (1171) 167)

Basic helix loop helix protein; DNA binding protein; P19 cell; Retinoic acid (Franco del Amo, F. (1171) 323)

Platelet; 12-Lipoxygenase; Enzyme immunoassay; Enzyme deficiency; Myeloproliferative disorder (Matsuda, S. (1180) 243)

Polymer film
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Polymerized lipid bilayer
Lipid bilayer; Lateral diffusion; Macrolipid; Polymerized lipid monolayer; Cluster distributions (Pink, D.A. (1150) 189)

Polymerized lipid monolayer
Lipid bilayer; Lateral diffusion; Macrolipid; Polymerized lipid bilayer; Cluster distributions (Pink, D.A. (1150) 189)

Polymorphism
Stratum corneum lipid; Diffusivity (Lieckfeldt, R. (1150) 182)

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Cathepsin B; cDNA; Nucleotide sequence; (Bovine) (Mordier, S. (1174) 305)

Polymorphonuclear Leukocyte
Sodium nitroprusside; Cyanide release; Oxidation; Monocyte (Campbell, J.M. (1156) 327)

Polymyxin B
EPR; Interdigitation; Lipid (Boggs, J.M. (1145) 42)

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Polypeptide
Lipid bilayer; Phase diagram; Critical mixing; Gramicidin A (Zhang, Z. (1147) 154)

Polypeptide conformation
FTIR; Crystallin; Fourier self-deconvolution; Curve fitting; Secondary structure; (Lens) (Lamba, O.P. (1163) 113)

Polyphemusin II
Tachyplesin I; NMR, ^{1}H-; anti-HIV peptide; Distance geometry; (XPLOR) (Tamamura, H. (1163) 209)

Polyphosphate metabolism
NMR, ^{31}P-; Cellular pH; Osmotic stress; (*N. crassa*) (Yang, Y.C. (1179) 141)

Polyphosphoinositide
Phospholipase C; Inhibitor; Actinomadura (Ogawara, H. (1175) 289)

Polystyrene microsphere
Kupffer cell; Liver endothelial cell; Colloidal gold; Opsonin; Dysopsonin; (Rat liver) (Moghimi, S.M. (1179) 157)

Polyunsaturated (essential) fatty acid
Membrane fluidity; Lipid composition; 5′-Nucleotidase; Intestinal brush border membrane (Daveloose, D. (1166) 229)

Polyunsaturated fatty acid
Platelet activation; Phospholipid; Plasma membrane; Hydrogenation (Joo, F. (1149) 231)

Docosahexaenoic acid; Icosapentaenoic acid; Prostanoid synthesis (Raederstorff, D. (1165) 194)

Hepatic fatty acid synthesis; Cell viability; Lipid peroxidation; Long-term culture; (Rat hepatocyte culture) (Mikkelsen, L. (1166) 99)

Desaturation; Icosapentaenoic acid; Elongation; HPLC; Linoleic acid; Linolenic acid; CaCo-2 cell line (Chen, Q. (1166) 193)

Phosphatidylcholine; Lipid peroxidation; PAF; GC-MS (Tanaka, T. (1166) 264)

Lipid peroxidation; Dicarboxylic acid; GC-MS (Passi, S. (1168) 190)

Cholesterol; Fatty acid; Nutrient transport; Intestinal morphology; Infant feeding (Thomson, A.B.R. (1170) 80)

POPG
DPPC; Phase property; NMR; Chemical shift anisotropy; Lung surfactant (Wiedmann, T. (1167) 114)

Pore
Leukocidin; Calcium; Ethidium; Fluorescence; (*S. aureus*) (Finck-Barbançon, V. (1182) 275)

Pore size
Liposome; Electroporation; Line tension (Zhelev, D.V. (1147) 89)

Porin
Mitochondrion; Dextran; Adenylate kinase; Compartmentation; Intermembrane space (Gellerich, F.N. (1142) 217)

OmpA; Ionophore property; (*E. coli*) (Saint, N. (1145) 119)

Mitochondrion; VDAC; Reconstitution; Liposome; Polyanion (Báthori, G. (1145) 168)

Porphyria
5-Aminolevulinic acid; Reactive oxygen species; Calcium ion homeostasis; Calcium ion; Magnesium ion; Mitochondrial damage; (Rat liver mitochondrion) (Hermes-Lima, M. (1180) 201)

Porphyrin
Bacteriorhodopsin; Liposome; Membrane potential; Photosensitization kinetics; X-ray microanalysis (Ehrenberg, B. (1151) 257)

Liposome; Incorporation; Kinetics; Equilibrium; Fluorescence (Vever-Bizet, C. (1153) 170)

Photodynamic therapy; Lysosome; β-*N*-acetyl-*D*-Glucosaminidase (Berg, K. (1158) 300)

Portal vein
β-Carotene; Intestinal perfusion; Retinoic acid; Polar metabolite (Wang, X.-D. (1167) 159)

Positional distribution
Cardiolipin; Fat deficiency; Fatty acid; Isomer; Linoleic acid; Linolenic acid; (Rat) (Wolff, R.L. (1168) 285)

Positive inotropic effect
ATPase, H^+-; ATPase, Ca^{2+}-; ATPase, H^+/K^+-; ATPase, Na^+/K^+-; Strophanthidin (Xu, K.-y. (1159) 109)

Posttranscriptional regulation
Enterocyte; mRNA; Sodium ion/glucose transporter; Gene expression; Hybridization, in situ; (Ovine) (Freeman, T.C. (1146) 203)

Transcription; Cell cycle; Methylenetetrahydrofolate; Mitogen (Peri, K.G. (1171) 281)

CSF-1; Regulation; Myogenesis; (Rat myoblast) (Borycki, A.-g. (1174) 143)

Posttranslational modification
Phycobiliprotein; Asparagine methylation; Oxygen evolution; Photosystem II (Thomas, B.A. (1143) 104)

Vaccinia virus; ADP-ribosylation; Metabolic inhibitor (Child, S.J. (1157) 217)

Annexin; Lipocortin; Calpactin (Moss, S.E. (1160) 120)

α-Lactalbumin; Lysozyme; Galactosyltransferase; Amino acid sequence; Monotreme (Shaw, D.C. (1161) 177)

Juvenile hormone; Juvenile hormone esterase; Isoform; Peptide mapping; Glycosylation (Jones, G. (1161) 235)

Elongation factor 1α; Protein synthesis; (*S. cerevisiae*) (Cavallius, J. (1163) 75)

Posttranslational processing
Lysosomal enzyme; Arylsulfatase; Protein sequence (Kobayashi, T. (1159) 243)

Potassium
Insect; Lepidoptera; Amino acid transport; Symport; Cotransport; Cation dependence (Hennigan, B.B. (1148) 209)

Insect; Lepidoptera; Midgut; Cotransport; Amino acid transport (Hennigan, B.B. (1148) 216)

ATP; Sodium; Magnesium; K^+/Na^+ ratio; (Mammalian erthrocyte); (Avian erythrocyte) (Miseta, A. (1175) 133)

Potassium channel
Sodium nitroprusside; Calcium-45 uptake; Calcium-45 outflow; Rubidium-86 outflow; Calcium flux; Insulin release; (Rat pancreatic islet cell) (Antoine, M.-H. (1175) 293)

Potassium channel toxin
Amino acid sequence; Biological activity; (Sea anemone) (Aneiros, A. (1157) 86)

Potassium / chloride cotransport
Sodium ion–proton exchange; Sodium/potassium/chloride cotransport; Shrinkage; Swelling; Cytoskeleton protein melting; (Erythrocyte); (Rat) (Orlov, S.N. (1151) 186)

Oxidant; Potassium ion channel, calcium-activated; Sulfhydryl group; Sickle-cell anemia; (Human erythrocyte) (Olivieri, O. (1176) 37)

Potassium ion atomic absorption
NMR, ^{23}Na-; Bacterial membrane; Monensin; 4-Chorophenyl-urethane-monensin; Ion selectivity; (*S. faecalis*); (*E. hirae*) (Rabaste, F. (1179) 166)

Potassium ion channel
Calcium ion dependence; Patch clamp; Depolarization; Calcium ion concentration, intracellular; (Chick osteoclast) (Weidema, A.F. (1149) 63)

Ammonium transport; Intracellular pH; pH, intracellular; Proximal tubule; BCECF; (Rat) (Chen, J.-G. (1149) 299)

Amphotericin B; Patch clamp; Toxicity; (MDCK cell) (Hsu, S.-F. (1152) 189)

Delayed rectifier; Potassium ion current; Epitope; Characterization; (Human) (Philipson, L.H. (1153) 111)

Brown adipose tissue; Potassium ion conductance; Delayed rectifier; Ion channel selectivity; Tetraethylammonium; (Rat) (Ruß, U. (1153) 249)

Adrenal medulla; Catecholamine secretion; Intracellular calcium ion; Calcium ion, intracellular (González-García, C. (1177) 99)

Potassium ion channel, calcium-activated
Oxidant; Potassium/chloride cotransport; Sulfhydryl group; Sickle-cell anemia; (Human erythrocyte) (Olivieri, O. (1176) 37)

Potassium ion conductance
Brown adipose tissue; Potassium ion channel; Delayed rectifier; Ion channel selectivity; Tetraethylammonium; (Rat) (Ruß, U. (1153) 249)

Potassium ion current
Osteoblast; Vitamin D-3; cyclic GMP (Chesnoy-Marchais, D. (1148) 239)

Delayed rectifier; Potassium ion channel; Epitope; Characterization; (Human) (Philipson, L.H. (1153) 111)

Potassium ion transport
Glucose regulation; Sugar kinase; Neomycin; Phosphatidylinositol; (*S. cerevisiae*) (Alijo, R. (1179) 224)

Potassium-proton antiporter
Sodium-proton antiporter; Mitochondrion; Transport; (Yeast) (Welihinda, A.A. (1144) 367)

Potassium transport
ATPase, Kdp^-; Right-side-out membrane vesicle; Phosphoglycerate transport; ATP generation; (*E. coli*) (Kollmann, R. (1143) 62)

Potato virus Y
Potyvirus coat protein; Epitope analysis (Vuento, M. (1162) 155)

Potential-sensitive styryl dye
Styryl dye; Lipid vesicle; Binding affinity; Temperature jump; Fluorescence lifetime; Phase transition; Quantum yield (Zouni, A. (1153) 203)

Potentiometry
Cytochrome *o*; Quinol oxidase; Carbonyl cytochrome; Oxygen binding; (*E. coli*) (Bolgiano, B. (1141) 95)

Potyvirus coat protein
Potato virus Y; Epitope analysis (Vuento, M. (1162) 155)

POU domain
Oct-1; cDNA; Expression (Kambe, F. (1171) 307)

Octamer; Transcription factor; Homeodomain; Gene regulation; Development (Verrijzer, C.P. (1173) 1)

Cysteine oxidation; DNA binding; Homeodomain; Octamer factor (Rigoni, P. (1173) 141)

PP_i : fructose-6-phosphate 1-phosphotransferase
Fructose 2,6-bisphosphate; Biosynthesis; Carbohydrate metabolism; Differentiation; (*V. mungo*); (*V. radiata*) (Ashihara, H. (1156) 123)

Pravastatin
HMG-CoA reductase inhibitor; Transport; Liver; Bile acid; (Rat) (Ziegler, K. (1153) 23)

Lovastatin; Ocular lens; Cholesterol; HMG-CoA reductase inhibitor; Vastatin (De Vries, A.C.J. (1167) 63)

Cholesterol lowering; Lipoprotein lowering; Primary prevention of aortic lipidosis; (White Carneau pigeon) (Hadjiisky, P. (1181) 279)

Preβ apo A-I
Reverse cholesterol transport; HDL; Coronary heart disease; Subpopulation; Plasma lipoprotein; Electrophoresis, two-dimensional; Ultracentrifugation (Asztalos, B.F. (1169) 291)

Precursor
Amino acid deficiency; Protein synthesis; Cell growth; Cell culture; (HeLa cell) (Wheatley, D.N. (1164) 209)

Phosphonoglycolipid; Neutral glycolipid; (*D. auricularia*) (Matsubara, T. (1166) 55)

mRNA; Translation, in vitro; Spleen inhibitor; Translation control; Trypsin inhibitor; Aprotinin; (Bovine) (Gambacurta, A. (1174) 267)

Precursor protein
Mitochondrial processing; Proteinase; Processing enhancing protein; Nuclear-encoded protein; In vitro import; (Plant mitochondrion) (Eriksson, A.C. (1140) 208)

Mitochondrial biogenesis; Puromycin; Protein transport; Biogenesis; ATP; (Mitochondrion) (Price, J. (1150) 89)

cDNA sequence; Platelet aggregation inhibitor; Hemorrhagic protein; (*C. rhodostoma*) (Au, L.-C. (1173) 243)

Pregnancy zone protein
Conformational change; Hydrophobic affinity partitioning; α_2-Macroglobulin; Proteinase inhibition; (Human) (Jensen, P.E.H. (1164) 152)

Pregnenolone
Cytochrome $P\text{-}450_{scc}$; Cholesterol; Hydroxycholesterol; Cholesterol side-chain cleavage; (Placenta) (Tuckey, R.C. (1163) 185)

Preimplantation conceptus
Membrane transport; Choline transport; Amino acid transport; (Preimplantation embryo) (Van Winkle, L.J. (1146) 38)

Prenodal peripheral lymph
Reverse cholesterol transport; Interstitial fluid; Apo A-I-containing subpopulation; Two-dimensional electrophoresis (Asztalos, B.F. (1169) 301)

Prenylation
GTP-binding protein; Palmitoylation; Sequence homology; (*P. Polycephalum*) (Kozlowski, P. (1173) 357)

GTP-binding protein; Palmitoylation; Sequence homology; Nucleotide sequence; (*P. polycephalum*) (Kozlowski, P. (1174) 299)

Preprotachykinin gene
5′ Flanking sequence; Putative transcription factor binding site; (Rat) (Chapman, K. (1172) 361)

Pressure
Electrostatics; Calorimetry; Dimensionality; Phospholipid (Montich, G. (1146) 17)

Preterm labor
Cytokine; Fetal membrane; Prostaglandin; Interleukin 1 receptor (Bry, K. (1181) 31)

Primary bile salt
Platelet membrane; Optical absorbance; Leakage; Component solubility; Electron microscopy; Aggregation; (Human blood) (Shiao, Y.-J. (1146) 282)

Primary cell culture
Calyculin A; Okadaic acid; Protein phosphatase-1; Glycogen; (Hepatocyte) (Pugazhenthi, S. (1179) 271)

Primary culture
Glutathione *S*-transferase; Gene expression; Phenobarbital; 3-Methylcholanthrene; β-Naphthoflavone; (Hepatocyte); (Rat); (Serum-free medium) (Dwivedi, R.S. (1174) 43)

Primary donor
Photosystem II; Reaction center; Photoinhibition; β-Carotene; P680 (De Las Rivas, J. (1142) 155)

Primary electron acceptor
Picosecond transient absorption; Energy transfer; Charge separation; (*H. chlorum*) (Van Noort, P.I. (1140) 15)

Primary electron donor
Cytochrome *c*-553; Electron acceptor; Extinction coefficient; (*H. chlorum*) (Kleinherenbrink, F.A.M. (1143) 77)

Primary prevention of aortic lipidosis
Cholesterol lowering; Lipoprotein lowering; Pravastatin; (White Carneau pigeon) (Hadjiisky, P. (1181) 279)

Primary quinone acceptor
Photosystem II; Q_A; Plastoquinone-9; Reconstitution; FTIR (Araga, C. (1142) 36)

Calcium depletion; High energy quenching; Photosystem II; Redox shift; Thermoluminescence (Krieger, A. (1144) 411)

Primary structure
ADP/ATP carrier; Mitochondrion; Solute carrier family; Gene structure; (Rat) (Shinohara, Y. (1152) 192)

Enzyme purification; Phospholipase A_2; Toxin; (*Vipera berus berus*); (Snake venom) (Križaj, I. (1157) 81)

Annexin V; Isoform; *N*-Acetylation; Protein kinase C; Phosphorylation (Learmonth, M.P. (1160) 76)

Protamine; α-Chymotrypsin; Trypsin; Mass spectrometry; (*S. caniculus*) (Kouach, M. (1162) 99)

Prolactin; Protein purification; Pituitary gland; Molecular evolution; (*P. aethiopicus*) (Noso, T. (1164) 159)

Cytochrome *P*-450; Reductase; cDNA cloning; (Mouse liver) (Ohgiya, S. (1171) 103)

Priming
Substance P; Signal transduction; (Human neutrophil) (Lloyds, D. (1175) 207)

Principal neutralizing determinant
HIV-1; V3 loop (Murakami, T. (1181) 155)

Proalbumin processing
Furin; Liver microsome; (Chicken, Rat) (Ledgerwood, E.C. (1159) 9)

Proapolipoprotein AI
Catabolism; Fractional catabolic rate; HDL; Isoelectric focusing; Isoprotein; Turnover study (Saku, K. (1167) 257)

Probenecid
Oocyte; Expression; Organic anion transporter; *p*-Aminohippuric acid; (*X. laevis*) (Steffgen, J. (1149) 145)

Fura-2; Multidrug transporting system; Anionic transport system; Intracellular calcium ion; Calcium ion, intracellular; Vanadate (Parisi, M. (1151) 1)

Probucol
Atherosclerosis; Cholesteryl ester; Apolipoprotein A-I; Cholesterol–LDL; Cholesterol–HDL (Eisenberg, S. (1167) 79)

Processing
(pro)Phospholipase A_2; Yeast secretion vector; Heterologous protein (Kanda, A. (1171) 1)

Processing enhancing protein
Mitochondrial processing; Proteinase; Nuclear-encoded protein; Precursor protein; In vitro import; (Plant mitochondrion) (Eriksson, A.C. (1140) 208)

Processing peptidase
Cytochrome-*c* reductase; Protein import; Mitochondrion; (Potato) (Emmermann, M. (1142) 306)

Prodrug
Liposome stability; Cytostatic; 5-Fluoro-2′-deoxyuridine; Fluoropyrimidine; Freeze-fracture; Electron microscopy; (Colon tumor); (Serum) (Van Borssum Waalkes, M. (1148) 161)

Prodynorphin-derived peptide
Cardiac myocyte; Gene expression; Prodynorphin mRNA (Canossa, M. (1172) 247)

Prodynorphin mRNA
Cardiac myocyte; Gene expression; Prodynorphin-derived peptide (Canossa, M. (1172) 247)

Progesterone
P-glycoprotein; Glycoprotein; Transport activity; Progesterone metabolite; Multidrug resistance; (Adrenal gland) (Lchikawa-Haraguchi, M. (1158) 201)

Antiprogestin ZK-98.299; Receptor; (Human myometrium) (D'souza, A. (1175) 73)

Progesterone metabolite
P-glycoprotein; Glycoprotein; Transport activity; Progesterone; Multidrug resistance; (Adrenal gland) (Lchikawa-Haraguchi, M. (1158) 201)

Programmed cell death
Apoptosis; Topoisomerase inhibitor; (Mouse thymocyte) (Onishi, Y. (1175) 147)

Prokaryotic expression
Phospholipase A_2; Synthetic gene; Kallikrein; Refolding; Antigen/allergen (Dudler, T. (1165) 201)

Prokaryotic lipid
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Prolactin
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Proliferation
Oncogene; Amino acid transport; L-Aspartate; L-Glutamate; (Fibroblast) (Bussolati, O. (1151) 153)

Calcium signalling; Contraction; Calcium ion channel, low voltage-activated; Calcium ion channel, high voltage-activated; (Aortic myocyte) (Richard, S. (1160) 95)

Thymosin β_4; Actin-binding peptide; Cell cycle; Human leukemia; Hepatectomy (Otero, A. (1176) 59)

Proline
a subunit; ATPase, F_0F_1-; Structure stabilization; Site-directed mutagenesis; Oxidative phosphorylation; (*E. coli*) (Howitt, S.M. (1144) 17)

Proline-specific peptidase
Dipeptidylcarboxypeptidase; Imino acid; Enzymatic peptide synthesis (Maruyama, S. (1162) 72)

Prolylendopeptidase
Bacteriophage T5-$P_{N_{25}}$; Lac operator; Fluorescent substrate; Serine proteinase; (Porcine brain) (Sommer, J. (1173) 289)

Pro-major basic protein (proMBP)
Peptide mapping; Glycosylation site; Proteoglycan (Shikata, Y. (1163) 243)

Promoter
N-Methyl-D-aspartate recepter 1 gene; Transcription start site; Housekeeping gene (Bai, G. (1152) 197)

Calmodulin; Cancer; Gene regulation (Koller, M. (1163) 1)

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tRNA gene; Direct repeat; (*T. celer*); (*Archaea*) (Klenk, H.-P. (1172) 236)

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−24 / −12 promoter
Nitrogen fixation; *Nif / fix* gene; Electron transport; *NifA*; (*Rhizobium*) (Michiels, J. (1144) 232)

Promoter analysis
Negative regulatory element; Thionin; Tissue specificity (Fernández, J.A. (1172) 346)

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ATP synthase, F_0F_1-; Alpha subunit; Mitochondrion; Nuclear gene (Jordan, E.M. (1173) 115)

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L-Carnitine; Acetyl-L-carnitine; Molecular packing; Membrane fluidity; Erythrocyte (Arduini, A. (1146) 229)

Proprotein
α_1-Microglobulin; Bikunin; Nycodenz gradient; Subcellular vesicle; Intracellular processing (Bratt, T. (1157) 147)

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16,16-Dimethylprostaglandin; Glycogenesis; Pertussis toxin; (Cultured rat hepatocyte) (Okumura, T. (1176) 137)

Cytokine; Preterm labor; Fetal membrane; Interleukin 1 receptor (Bry, K. (1181) 31)

Prostaglandin B_1 oligomer
Phospholipase A_2; Arachidonic acid; 1,3-Dioctanoylglycerol; 1,2-Dioctanoylglycerol; Superoxide; (Human neutrophil) (Rosenthal, M.D. (1177) 79)

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15-Hydroperoxyicosatetraenoic acid; BHK-21 cell (Kiran Kumar, Y.V. (1167) 102)

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Prostaglandin E_2 receptor
U937 cell; cyclic AMP; Adenylate cyclase; Desensitization (Loh, C.L. (1177) 43)

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Prostrate-specific antigen nucleotide sequence
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α-Chymotrypsin; Trypsin; Primary structure; Mass spectrometry; (*S. caniculus*) (Kouach, M. (1162) 99)

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Protein 4.1
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Protein, 70K
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Protein A
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Protein acceptor
Neurotoxin; Toxin binding; Ganglioside; Solubilization; Synaptic membrane; (*C. botulinum*) (Nishiki, T.-i. (1158) 333)

Protein binding
Plasminogen; Poly(ethylene glycol); Long-circulating liposome; Liposome; Cryptosome; Drug targeting; Biodistribution (Blume, G. (1149) 180)

Protein C
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Fusion protein; Protein C heavy chain; Antibody (Fijalkowska, I. (1161) 187)

Protein characterization
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Protein purification; Purine nucleoside phosphorylase; Lens; (Calf) (Barsacchi, D. (1160) 163)

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Lysophospholipase; (Mouse macrophage) (Garsetti, D.E. (1165) 229)

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Protein C heavy chain
Protein C; Fusion protein; Antibody (Fijalkowska, I. (1161) 187)

Protein conformation
Creatine kinase; Biphasic kinetics; Anisotropy; Steady state fluorescence (Grossman, S.H. (1159) 29)

Toxin; Circular dichroism; δ-Endotoxin; (*B. thuringiensis*) (Venugopal, M.G. (1159) 185)

Infrared spectroscopy; High pressure; Immunoglobulin G; Bovine serum albumin (Howlett, J.R. (1159) 227)

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Fatty acid binding protein; Liver; (Rat) (Muga, A. (1162) 291)

N-(9-Acridinyl)maleimide; Fluorescent probe; Photoreceptor; Phytochrome; (*P. sativum*) (Yamamoto, K.T. (1163) 227)

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Papain; Active site; Substrate protection; Protein denaturation; Protein unfolding (Xiao, J. (1164) 54)

Raman spectroscopy; Lens; Aging; (Human); (Eye) (Smeets, M.H. (1164) 236)

Protein crosslinking
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Protein crystallization
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Protein denaturation
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Papain; Active site; Substrate protection; Protein conformation; Protein unfolding (Xiao, J. (1164) 54)

Protein dissociation
High pressure study; Hemoglobin; (*L. terrestris*) (Hirsch, R.E. (1161) 285)

Protein disulfide isomerase
Hepatocellular transport; Bile acid; Photoaffinity labeling; Bumetanide; Two-dimensional gel electrophoresis (Honscha, W. (1153) 175)

Autoimmune; Autoantigen; LEC rat; Calreticulin (Yokoi, T. (1158) 339)

Protein-DNA complex
Tryptophan-repressor; NMR; Protein-ligand complex (Evans, J.N.S. (1160) 156)

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Protein dynamics
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Protein electrophoresis, two-dimensional
Serum albumin; Low level variant; Amino acid substitution; Disulfide bridge (Brennan, S.O. (1182) 46)

Protein encapsulation
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Protein engineering
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Protein export
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Protein folding
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Fluorometry; Acid phosphatase; Denaturation (Ostrowski, W.S. (1164) 319)

Protein import
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Protein instability
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Protein kinase
Calmodulin; Myosin light-chain kinase; Calcium; Fluorescence; Mutagenesis (Kilhoffer, M.-C. (1160) 8)

cDNA sequence; Structural analysis; (Soybean) (Feng, X.-H. (1172) 200)

Myosin; Autophosphorylation; Phospholipid; (*Dictyostelium*) (Medley, Q.G. (1175) 7)

Skeletal muscle; Calcium channel; Serine phosphorylation; Phosphorylation site; Sarcoplasmic reticulum (Suko, J. (1175) 193)

Nitric oxide; Endothelium-derived relaxing factor; cGMP; Guanylyl cyclase; Phosphorylation (Schmidt, H.H.H.W. (1178) 153)

Insulin; Growth factor; Ribosomal protein; Ribosomal protein S6; cyclic-AMP-dependent protein kinase (Donella-Deana, A. (1178) 189)

cyclic AMP; Isoenzyme; Enzyme activation; Enzyme inhibitor (Døskeland, S.O. (1178) 249)

Protein kinase C
Ascorbic acid; Ciliary epithelium, non-pigmented; cyclic AMP; ATPase, Na^+/K^+-; Membrane transport (Delamere, N.A. (1149) 102)

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Annexin V; Isoform; Primary structure; *N*-Acetylation; Phosphorylation (Learmonth, M.P. (1160) 76)

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Atrial natriuretic peptide; cGMP; (Rat vascular smooth muscle cell) (Kawabe, J.-i. (1175) 81)

Protein synthesis; Translational control; Phosphoinositide hydrolysis; Endothelin; Cardiomyocyte; pH, intracellular (Sugden, P.H. (1175) 327)

Arachidonic acid; Signal transduction; Tumor promotion; Phorbol ester; (Rat brain) (Huang, X.P. (1175) 351)

Tocopherol; Tocotrienol; Cell proliferation; Antioxidant; (Smooth-muscle cell) (Chatelain, E. (1176) 83)

β-Isotype; nPKC; Pseudosubstrate; Calcium; Superoxide anion generation; p47-phox; Neutrophil (Majumdar, S. (1176) 276)

Adenylyl cyclase; Hypersensitivity; G protein; (Lung); (Guinea pig) (Grady, M. (1176) 313)

Phosphate transport; cyclic-AMP-dependent protein kinase; Phorbol ester; Forskolin; (NIH 3T3 cell) (Oláh, Z. (1176) 333)

Gene transfer; TPA (Reston, J.T. (1177) 49)

Epidermal growth factor; Phosphorylation; Eukaryotic initiation factor; Epidermoid carcinoma; (A431 cell); (Human) (Wolthuis, R.M.F. (1177) 160)

Guanylate cyclase; (PC12 cell) (Louis, J.-C. (1177) 299)

Signal transduction; Gene expression, immediate early; Growth control; (CHO-K1 cell) (Ross, S. (1177) 307)

G protein; Chemotaxis; R59022; GTPγS; fMet-Leu-Phe (Boonen, G.J.J.C. (1178) 97)

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Platelet-derived growth factor; Arachidonic acid release; Free calcium ion; Fibroblast (Chow, S.C. (1179) 81)

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Retinoic acid; Retinoic acid receptor; Teratocarcinoma; Teratocarcinoma differentiation; (Human) (Kurie, J.M. (1179) 203)

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Light adaptation; Response inactivation; Calcium ion, intracellular store; Rhodopsin kinase; Rhodopsin phosphatase (Selinger, Z. (1179) 283)

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Protein kinase C-δ
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Protein kinase C group
Protein kinase C-δ; Phorbol ester; Gene expression; Cloning; (Human) (Aris, J.P. (1174) 171)

Protein kinase C inhibitor
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Protein–lipid interaction
Trehalase; Enzyme regulation; Enzyme phosphorylation; Phosphorylation; (*S. cerevisiae*) (Soares de Araujo, P. (1148) 303)

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Fatty acid-binding; Lipid transfer protein; (Rape seed) (Østergaard, J. (1170) 109)

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Protein-membrane / interface interaction
Reverse micelle; Lipase; Kinetics; Conformation; 1,2–*O*-Dilauryl-*rac*-glycero-3-glutaric acid-resorufin ester (Brown, E.D. (1161) 66)

Protein modification
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Protein orientation
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Protein phosphatase
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Protein phosphatase, type 2B
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Protein phosphorylation
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Sodium channel; Anti-peptide antibody; Phosphorylation block; Phosphorylated peptide; (Rat brain) (Nakayama, H. (1175) 67)

Succinic thiokinase; cyclic AMP stimulation; Metabolic state; *Dictyostelium discoideum* (Schwandner, W.R.E. (1176) 175)

Phosphatidylinositol 4,5-bisphosphate; Casein kinase; Magnesium ion; (Erythrocyte); (Rabbit) (Chauhan, V.P.S. (1177) 318)

Protein kinase C; Corpus luteum; (Rat); (Ovary) (Cutler Jr., R.E. (1179) 260)

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Protein purification
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Aminotransferase; Protein characterization (Kontani, Y. (1156) 161)

Chemotaxis protein; Homogeneity; Reconstitution; Methylation; (*B. subtilis*) (Hanlon, D.W. (1158) 345)

Bacteriophage; Lytic enzyme; Enzymatic activity (Caldentey, J. (1159) 44)

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Aspartate aminotransferase; Archaebacterium; Hyperthermophilia; Thermostability; Expression; (*S. solfataricus*); (*E. coli*) (Arnone, M.I. (1160) 206)

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S-Adenosylhomocysteine hydrolase; Immunology; Thermophile; Secondary structure; (*S. solfataricus*) (Porcelli, M. (1164) 179)

Protein reconstitution
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Protein refolding
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Protein secretion
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Cell growth; Cell cycle; Immunoglobulin superfamily; Interleukin 1 receptor; Glycosylation (Takagi, T. (1178) 194)

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Protein sequence
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Cytochrome *c*; Low-molecular-weight monohemic cytochrome *c*; Secondary structure prediction; Sulfate-reducing bacterium (Bruschi, M. (1162) 89)

ATP synthase; Oligomycin sensitivity conferring protein (OSCP); ATPase inhibitor protein; IF_1; Subunit c; Proteolipid; DNA sequence (Higuti, T. (1172) 311)

Protein solution structure
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Protein stability
Nuclease; Free energy; Denaturation; Component analysis; Molecular dynamics; (*S. aureus*) (Yamaotsu, N. (1163) 81)

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Protein synthesis
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Elongation factor 1α; Posttranslational modification; (*S. cerevisiae*) (Cavallius, J. (1163) 75)

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Protein transfer
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Protein translocation
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Protein transport
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Protein tyrosine kinase
Phosphatidylinositol(3,4,5)-triphosphate; Intracellular signalling; Inositol lipid; PI-3 kinase; Growth factor; G protein (Stephens, L.R. (1179) 27)

Protein tyrosine phosphatase
ELISA; Signal transduction; Enzyme activity (Mishra, S. (1157) 93)

Protein unfolding
groEL; Chaperone protein; Protein folding (Price, N.C. (1161) 52)

Papain; Active site; Substrate protection; Protein denaturation; Protein conformation (Xiao, J. (1164) 54)

Adenylate kinase; Thermal denaturation; Protein refolding; Inactivation; Reactivation (Zhang, Y.-L. (1164) 61)

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Mitochondrial processing; Processing enhancing protein; Nuclear-encoded protein; Precursor protein; In vitro import; (Plant mitochondrion) (Eriksson, A.C. (1140) 208)

Aggrecan; Cartilage; Proteoglycan; Substrate specificity (Cs.-Szabó, G. (1162) 266)

Gelatinase activity; Lymphocyte; Lymphokine; (Human) (Zhou, H. (1177) 174)

HIV-1; *gag*; p6; Protein structure; Open reading frame (Stys, D. (1182) 157)

Fibronectin; Cartilage; Fragment; Chondrolysis; Proteoglycan (Xie, D.-l. (1182) 189)

Proteinase digestion
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Proteinase inhibition
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Proteinase inhibitor
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Tissue inhibitor; Metalloproteinase; Peptide mapping; Proteolysis (Williamson, R.A. (1164) 8)

Turkey ovomucoid; Deglycosylation; Trifluoromethanesulfonic acid; Trypsin domain; Chymotrypsin domain (Dabich, D. (1164) 47)

Acrosin-trypsin inhibitor; Epididymal protein (Perry, A.C.F. (1172) 159)

α_1-Proteinase inhibitor
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Proteinase omega
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Aggrecan; Cartilage; Proteinase; Substrate specificity (Cs.-Szabó, G. (1162) 266)

Pro-major basic protein (proMBP); Peptide mapping; Glycosylation site (Shikata, Y. (1163) 243)

LDL; Arterial injury; Binding properties; (Rabbit) (Srinivasan, S.R. (1168) 158)

Hyaluronate; Bone; Vitamin D; Rickets; Chick (Dickson, I.R. (1181) 15)

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Proteoglycan aggregates
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Proteolipid
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ATP synthase; ATPase; Subunit c; DCCD-binding protein; Ceroid-lipofuscinosis; Batten's disease; (Human mitochondria) (Higuti, T. (1173) 87)

Proteolipid protein
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Proteoliposome
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Bacterium; Bactericide; Targeting; Concanavalin A; Triclosan; (*S. sanguis*); (*S. mutans*) (Jones, M.N. (1147) 251)

Alamethicin; ATPase, Ca^{2+}-; ATPase, Na^+/K^+-; Brain microsome; Platelet; Sarcoplasmic reticulum; Bilayer lipid membrane (Ritov, V.B. (1148) 257)

ATPase, Na^+/K^+-; Electrogenic activity; Fluorescence; Protein orientation; Ion-exchange chromatography (Ivashchuk-Kienbaum, Y.A. (1148) 321)

D-Glucose; Glucose transporter; Immobilization; pH; Transport retention chromatography; (Human erythrocyte) (Lu, L. (1150) 135)

Amino acid transporter; Small intestine; Reconstitution; (Rabbit) (Nakanishi, M. (1151) 193)

Proteolysis
D1 protein; Electron transport; Light stress; Oxidative damage; Photosystem II; Reaction center (Aro, E.-M. (1143) 113)

NADP-malate dehydrogenase; Protein structure; (Pea chloroplast) (Kampfenkel, K. (1156) 71)

Jacalin; Amino acid sequence (Ngoc, L.D. (1156) 219)

Jacalin; Immunoglobulin-binding peptide; Peptide mapping; IgA (Kabir, S. (1161) 194)

Tissue inhibitor; Proteinase inhibitor; Metalloproteinase; Peptide mapping (Williamson, R.A. (1164) 8)

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Ubiquitin; Lens; Damaged or obsolete protein turnover (Huang, L.L. (1175) 181)

Proton / carboxylate stoichiometry
Carboxylic acid transport; Proton movement; Lactate; Succinate; Citrate; (yeast); (*C. utilis*) (Cássio, F. (1153) 59)

Proton channel
ATPase; CF_1; Photophosphorylation; Reconstitution; Subunit (Engelbrecht, S. (1140) 157)

Alpha helix; α-Helical periodicity; Fourier transform; Hydropathy analysis; ATP synthase, F_1F_0- (Vik, S.B. (1140) 199)

Dicyclohexylcarbodiimide; Proton pump (Hassinen, I.E. (1144) 107)

Proton conductance
Flagellum; Photosynthetic bacterium; Motility; (*Rb. sphaeroides*) (Brown, S. (1141) 309)

Proton co-transport
Sucrose transport; Phloem; α-Glucoside; 4-Hydroxyphenyl β-D-fructofuranoside; (*A. graveolens*) (Griffin, S.D.J. (1152) 61)

Proton-coupled dipeptide transport
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Proton gradient
ATP synthase, H^+-; Enzyme activation; Enzyme regulation; Energy transduction; (Cyanobacteria); (Chloroplasts) (Krab, K. (1141) 197)

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Protonmotive cycle
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Proton movement
Carboxylic acid transport; Lactate; Succinate; Citrate; Proton/carboxylate stoichiometry; (yeast); (*C. utilis*) (Cássio, F. (1153) 59)

Proton pump
Dicyclohexylcarbodiimide; Proton channel (Hassinen, I.E. (1144) 107)

Proton pumping
Proteoliposome; ATP synthase, H^+-; Plastoquinone: plastocyanin oxidoreductase; Energy transduction; Cyanobacterium; (*Synechococcus* 6716) (Krenn, B.E. (1140) 271)

Proton transfer
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Proton transport
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Proton uptake
Photosynthetic reaction center; Quinone acceptor; Transmembrane electric potential; (*R. sphaeroides*) (Shinkarev, V.P. (1144) 285)

Bacterial photosynthesis; Reaction center; Electron transfer; (*Rb. sphaeroides*) (McPherson, P.H. (1144) 309)

Protonmotive force
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Lipid structure; Translocation; Protein secretion; (*C. glutamicum*) (Bayan, N. (1146) 97)

Protonmotive respiration
Motility; Sodium motor; Sodiummotive respiration; (*Bacillus FTU*) (Bogachev, A.V. (1142) 321)

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AU-1421; Uncoupler; Oxidative phosphorylation; (Rat mitochondria) (Nagamune, H. (1141) 231)

Bilayer lipid membrane; Ultrasound; Unstirred layer; Weak acid (Pohl, P. (1145) 279)

Proto-oncogene
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Protoporphyrin IX
Peroxidase; Glycosylation; Phenolic compound; EPR; High-spin ferric state; (*P. ostreatus*) (Kang, S.-O. (1163) 158)

Pro-urokinase
Urokinase; Thermolysin; Plasminogen activator (Marcotte, P.A. (1161) 105)

Proximal tubule
Anion exchange; Affinity chromatography; Membrane reconstitution (Soleimani, M. (1149) 127)

Ammonium transport; Intracellular pH; pH, intracellular; Potassium ion channel; BCECF; (Rat) (Chen, J.-G. (1149) 299)

Inorganic phosphate; Expression cloning; mRNA; (OK cell); (Opossum kidney) (Sorribas, V. (1178) 141)

Proximal tubule cell
Differentiation; Insulin; Glucose; Glycolysis; Gluconeogenesis; (Rabbit) (Courjault, F. (1177) 147)

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***psaE* gene product**
Photosystem I; Reaction center complex; Subunit; Ferredoxin; (*S. elongatus*) (Sonoike, K. (1141) 52)

***psaF* gene**
Photosystem I; Reaction center complex; Subunit; Detergent; Cytochrome *c*-553; (*S. elongatus*) (Hatanaka, H. (1141) 45)

psbO
Nucleotide sequence; Manganese-stabilizing protein; Oxygen evolution; (*S. elongatus*) (Miura, K. (1172) 357)

Pseudomonal elastase
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Hageman factor; Kallikrein-kinin system; Serine proteinase; Bacterial proteinase; Serratial E15 proteinase (Semba, U. (1180) 267)

Bacterial proteinase; Endotoxin; Septic shock; Low resistant shock; (*Pseudomonas aeruginosa*) (Hossain Khan, M.M. (1182) 83)

Pseudosubstrate
Protein kinase C; β-Isotype; nPKC; Calcium; Superoxide anion generation; p47-phox; Neutrophil (Majumdar, S. (1176) 276)

Psoriasis
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PTHrP
FTIR; Peptide; Secondary structure (McFarlane, D.R. (1162) 187)

Pulmonary
Temperature; Water; Membrane; Transport (Garrick, R.A. (1148) 108)

Surfactant; Lung; Inactivation; Inhibition; Phospholipid (Amirkhanian, J.D. (1165) 321)

Pulmonary hypertension
Ventricle; mRNA; Sodium ion pump; ATPase, Na^+/K^+-; Cardiomyopathy; (Human); (Heart) (Zahler, R. (1149) 189)

Pulmonary surfactant
Hydrophobicity; Lipid–peptide interaction; (Rat) (McLean, L.R. (1166) 31)

Phosphatidylcholine secretion; Protein kinase C inhibitor; Calmodulin antagonist; Purinoceptor, P_2 (Griese, M. (1167) 85)

Hydrophobic protein; Circular dichroism; Secondary structure; α-Helical content; Reconstitution (Pérez-Gil, J. (1168) 261)

Pulsatile bubble surfactometer
Synthetic peptide; Serum inactivation; RDS; Inactivation reversal; Calcium; Infant serum (Amirkhanian, J.D. (1168) 315)

Pulse radiolysis
Carnosine; Superoxide radical; Hydroxyl radical (Pavlov, A.R. (1157) 304)

Kynurenine; Oxidation; Reduction (Atherton, S.J. (1158) 75)

Electron transfer; Long range electron transfer; Alpha helix; Circular dichroism; Leucine zipper peptide (Lee, H. (1159) 286)

Pump-probe spectroscopy
Antenna; Chlorophyll *a*; Cyanobacterium; Photosystem I; Ultrafast spectroscopy; (*Synechococcus*) (Lin, S. (1140) 6)

Puriceptor
Calcium; Fura-2; Nucleotide; ATP; Suramin; (Renal proximal cultured cell) (Cejka, J.-C. (1176) 7)

Purification
Cytochrome *P*-450; Diabetes-inducible cytochrome *P*-450; Streptozotocin; (Rat liver) (Toda, A. (1141) 245)

ATPase inhibitor, Na^+,K^+-; Pig urine; Bovine adrenal gland (Tamura, M. (1157) 15)

Acetolactate synthase; Characterization; (*Serratia marcescens*) (Yang, J.H. (1157) 178)

Phosphofructokinase; Characterization; (Rainbow trout) (Su, Y. (1160) 301)

Flavin-containing monooxygenase; Human liver; Antibody; Amino-terminal sequence; (Primate) (Sadeque, A.J.M. (1162) 127)

Amino acid sequence; DNA cloning; Renal dipeptidase; Expression; Northern blotting; (Mouse) (Satoh, S. (1163) 234)

Plant lipid; Thylakoid; Silicic acid chromatography; (Spinach) (Bratt, C.E. (1165) 288)

Protein characterization; Phosphatidylinositol 4-phosphate kinase (Moritz, A. (1168) 79)

Complex glycosphingolipid; Polyglycosylceramide; Erythrocyte; FABMS; HPLC; (Human) (Miller-Podraza, H. (1168) 330)

Cytochrome $P\text{-}450_{14DM}$; Characterization; Lanosterol 14α-demethylase; Immunoaffinity chromatography; Liver; (Human) (Sonoda, Y. (1170) 92)

Ribosomal gene promotor; Trypanosome DNA binding protein; Characterization; (*T. brucei*) (Mburu, P.W. (1172) 5)

Purine
Purine metabolism; *Artemia* development; Synthesis (Rotllan, P. (1156) 128)

Purine de novo synthesis
Methylmercaptopurine ribonucleoside; 6-Mercaptopurine; 5-Phosphoribosyl 1-pyrophosphate; Lymphoblastic leukemia; Cytotoxicity (Vogt, M.H.J. (1181) 189)

Purine metabolism
Purine; Synthesis; *Artemia* development (Rotllan, P. (1156) 128)

Purine nucleoside phosphorylase
Protein purification; Protein characterization; Lens; (Calf) (Barsacchi, D. (1160) 163)

Purine nucleotide
ATPase, ecto-; Synaptosome; Ectonucleotidase; Nucleotidase; (Bovine brain) (Hohmann, J. (1152) 146)

ATP diphosphohydrolase; Apyrase; Vascular smooth muscle cell; Platelet aggregation (Côté, Y.P. (1160) 246)

Lymphocyte; HIV-1; AIDS (Tabucchi, A. (1182) 317)

Purinoceptor
Platelet Membrane; ATP; Extracellular ATP (Soslau, G. (1177) 199)

Purinoceptor, P_2
Pulmonary surfactant; Phosphatidylcholine secretion; Protein kinase C inhibitor; Calmodulin antagonist (Griese, M. (1167) 85)

Puromycin
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Purple bacterium
Energy transfer kinetics; Bacterial photosynthesis; Picosecond fluorescence; Target (compartmental) analysis; Model calculation; Free energy; (*Rb. capsulatus*) (Müller, M.G. (1142) 49)

Energy transfer; Antenna; Reaction center; (*Rps. viridis*); (*Rb. sphaeroides*); (*R. rubrum*); (*Chr. tepidum*) (Otte, S.C.M. (1143) 84)

Purple membrane
Bacteriorhodopsin; Delipidation; Anesthetic; Opsin shift; Acid-base equilibrium; Schiff base (Messaoudi, S. (1140) 45)

Purple sulfur bacterium
Cytochrome bc_1 complex; Cytochrome c_2; High potential iron protein; HiPIP (Tan, J. (1144) 69)

Putative transcription factor binding site
Preprotachykinin gene; 5′ Flanking sequence; (Rat) (Chapman, K. (1172) 361)

Putrescine
Spermine; Spermidine; Polyamine; Brush-border membrane vesicle; Polyamine uptake; (Rat intestine) (Kobayashi, M. (1151) 161)

Ethanol; Ethanol ingestion; Polyamine acetylation; Spermidine; (Rat liver) (Perin, A. (1156) 113)

***P*-450 XIA1**
Cytochrome $P\text{-}450_{scc}$; Cholesterol binding site; Methoxychlor; Monooxygenase (Tsujita, M. (1161) 124)

***P*-450XIB1**
Cytochrome $P\text{-}450_{11\beta}$; Steroid; 11β-Hydroxylase; Substrate binding; Affinity labeling; Methyltrienolone (Ohnishi, T. (1161) 257)

Pyranine
Liposome; Ion flux; Membrane potential; Permeability; Fluorescent probe; PBFI; Oxonol (Venema, K. (1146) 87)

Amphotericin B; Nystatin; Ion current; Drug delivery; Liposome (Lambing, H.E. (1152) 185)

Pyridine nucleotide
Oxygenation; Oxido-reduction state; Liver transplantation; (Human) (Tanaka, A. (1182) 250)

Pyridine nucleotide dehydrogenase
Cyanide-insensitive oxygen uptake; Oxygen uptake; Cyanobacterium; Photosynthesis; (*Anabaena* PCC 7120) (Howitt, C.A. (1141) 313)

Pyridoxal 5′-phosphate inhibition
Phosphotyrosine protein phosphatase; Acid phosphatase (Cirri, P. (1161) 216)

Pyrophosphate
Free energy change; Inorganic pyrophosphate; ATP; Thermodynamic model; Metabolism (Davies, J.M. (1141) 29)

Pyrroloquinoline quinone
Gas chromatography/mass spectrometry; Human; Rat (Kumazawa, T. (1156) 62)

Pyruvate dehydrogenase
Myocardium; Dichloroacetate; α-Cyanohydroxycinnamate; Mitochondrial pyruvate transporter; Donnan equilibrium (Bünger, R. (1151) 223)

Pyruvate dehydrogenase complex; Enzyme-linked immunosorbent assay; Radioimmunoassay; Polyclonal antibody; Monoclonal antibody (McNally, A. (1160) 179)

Pyruvate dehydrogenase complex
Pyruvate dehydrogenase; Enzyme-linked immunosorbent assay; Radioimmunoassay; Polyclonal antibody; Monoclonal antibody (McNally, A. (1160) 179)

Lipogenesis; High-sucrose diet; Lipogenic enzyme; (Fish oil) (Da Silva, L.A. (1169) 126)

Lacticacidemia; NADH-CoQ reductase; Cytochrome oxidase; ATPase; Oligomycin sensitivity (Robinson, B.H. (1182) 231)

Pyruvate kinase
Creatine kinase; Compartmentation; Adenine nucleotide; Intermembrane space; (Rat heart mitochondrion) (Gellerich, F.N. (1140) 327)

Oil seed; Enzyme regulation; Enzyme kinetics; Glycolysis; Phospho*enol*pyruvate (Podestá, F.E. (1160) 213)

Pyruvate oxidation
Iron-sulfur cluster; Hyperthermophile; Fermentation; *(P. furiosus)* (Blamey, J.M. (1161) 19)

Pyruvate stimulation
Cultured hepatocyte; Lipogenic enzyme; Hormonal induction; (Rat) (Tomita, Y. (1170) 253)

Q

Q_A
Photosystem II; Electron transfer; EPR; Ferroquinone complex; Q_B; Cyanide binding (Koulougliotis, D. (1141) 275)

Photosystem II; Primary quinone acceptor; Plastoquinone-9; Reconstitution; FTIR (Araga, C. (1142) 36)

Q_B
Photosystem II; Electron transfer; EPR; Ferroquinone complex; Q_A; Cyanide binding (Koulougliotis, D. (1141) 275)

QH_2: cytochrome *c* reductase
Inhibitory site; Antimycin A; 3-Nitrosalicyl *N*-alkylamide (Xu, J.-x. (1142) 83)

Quadrupole moment
Dielectrophoresis; Electrorotation; Levitation; Dipole moment (Washizu, M. (1158) 40)

Quantitative structure–activity relationship
α-Chymotrypsin; Subtilisin; Nucleophile specificity; Substrate specificity (Gololobov, M.Y. (1160) 188)

Quantum yield
Photoactive protein; Yellow protein; Photocycle intermediate; Photochromism; Light-induced reaction; Branching reaction; (*E. halophila*) (Miller, A. (1141) 190)

Potential-sensitive styryl dye; Styryl dye; Lipid vesicle; Binding affinity; Temperature jump; Fluorescence lifetime; Phase transition (Zouni, A. (1153) 203)

Quasi-elastic light scattering
Non-radiative energy transfer; Liposome–polymer interaction; Cytoskeleton; Model membrane; Fluorescence; DSC (Ringsdorf, H. (1153) 335)

Quercetin
β-Carotene; Linolenic acid; Lipid photoperoxidation; Reactive oxygen species; (*Phaseolus vulgaris* L.) (Ferrari-Iliou, R. (1166) 48)

Quinol oxidase
Cytochrome *o*; Carbonyl cytochrome; Oxygen binding; Potentiometry; (*E. coli*) (Bolgiano, B. (1141) 95)

Quinone
Photoinhibition; Chlorophyll fluorescence induction; Photosystem II heterogeneity; Electron acceptor; Repair cycle (Van Wijk, K.J. (1142) 59)

Quinone-copper complex; Protein modification; Aging; Amine oxidation; Lysyl oxidase (Shah, M.A. (1159) 311)

Quinone acceptor
Photosynthesis; Reaction center; Electric potential generation; Site-directed mutagenesis; (*Rb. sphaeroides*) (Shinkarev, V.P. (1142) 214)

Photosynthetic reaction center; Proton uptake; Transmembrane electric potential; (*R. sphaeroides*) (Shinkarev, V.P. (1144) 285)

Quinone acceptor orientation
EPR; Reaction center; Photosynthesis; Charge separation; (Bacteria) (Füchsle, G. (1142) 23)

Quinone-copper complex
Quinone; Protein modification; Aging; Amine oxidation; Lysyl oxidase (Shah, M.A. (1159) 311)

Quinone-iron acceptor complex
Photosystem II; Electron transfer; Cholate; EPR; Herbicide (Bowlby, N.R. (1144) 271)

Quinoprotein
Copper protein; Electron transfer; Ligand binding; Protein–protein interaction (Davidson, V.L. (1144) 39)

Quisqualate
L-Glutamate receptor; Ketamine; High pressure; Channel gating; (Locust muscle) (Macdonald, A.G. (1151) 13)

R

R59022
Protein kinase C; G protein; Chemotaxis; GTPγS; fMet-Leu-Phe (Boonen, G.J.J.C. (1178) 97)

Rabbit serum lectin
Synthetic oligosaccharides; Affinity chromatography; Hemagglutination reaction (Hosomi, O. (1157) 45)

RACE
Branched chain α-ketoacid dehydrogenase; cDNA (McKean, M.C. (1171) 109)

Radiation inactivation
Leukotriene D_4; Leukotriene D_4 receptor; THP-1 cell line; Radioreceptor binding; Target size; *N*-Glycosylation (Rochette, C. (1177) 283)

Radical
Peroxide; Peracid; Tumor promotion; EPR; Spin trapping; Cytochrome *P*-450; Benzoyl peroxide (Greenley, T.L. (1157) 23)

Radical cation
Bacteriochlorophyll; Reaction center; Special pair; Infrared spectroscopy; (Photosynthetic bacterium) (Morita, E.H. (1142) 146)

Radical pair recombination
Photosystem II; Reaction center; Core complex; Photoinactivation (Liu, B. (1142) 129)

Radioimmunoassay
Pyruvate dehydrogenase complex; Pyruvate dehydrogenase; Enzyme-linked immunosorbent assay; Polyclonal antibody; Monoclonal antibody (McNally, A. (1160) 179)

Radioiodination
Apo A-I; Apo A-II; HDL subpopulation; Protein transfer; Immunoaffinity chromatography (Cheung, M.C. (1165) 68)

Radioligand binding
Ins(1,4,5)P_3 receptor; Heparin; Magnesium; (Rat cerebellum); (Bovine adrenal cortex) (White, A.M. (1175) 307)

Radionuclide
Lipophilic cationic probe; Isonitrile; Organotechnetium compound; Valinomycin; Membrane potential; Large unilamellar vesicle (Chernoff, D.M. (1147) 262)

Radioreceptor binding
Leukotriene D_4; Leukotriene D_4 receptor; THP-1 cell line; Radiation inactivation; Target size; *N*-Glycosylation (Rochette, C. (1177) 283)

Raman spectroscopy
Acetylcholine receptor; Carbamylcholine; (+)-Tubocurarine (Aslanian, D. (1148) 291)

Hydroporphyrin; Isobacteriochlorin; Enzyme (Underwood-Lemons, T. (1157) 275)

myo-Inositol monophosphatase; Secondary structure prediction; Circular dichroism; Fluorescence; Thermostability (Ganzhorn, A.J. (1161) 303)

Epoxide hydrolase; Lipid–protein interaction; Secondary structure (Ivanov, Y.D. (1162) 217)

Protein conformation; Lens; Aging; (Human); (Eye) (Smeets, M.H. (1164) 236)

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Expression system; Protein purification; GTP-binding protein; (Baculovirus) (Suzuki, T. (1159) 162)

Ranitidine
Aminopyrine accumulation; cyclic AMP; Glucose oxidation; Histamine; (Rat) (Li, Z.-Q. (1175) 250)

Aminopyrine accumulation; cyclic AMP; Histamine; Phosphodiesterase inhibitor (Cabero, J.L. (1177) 245)

Rat
Pyrroloquinoline quinone; Gas chromatography/mass spectrometry; Human (Kumazawa, T. (1156) 62)

Islet cell; Nitric oxide donor; Cytotoxicity; Macrophage; Tumor cell (Kröncke, K.-D. (1182) 221)

Rate constant
Gramicidin; Micelle; Tryptophan; Ultraviolet photolysis; Degradation; Photolytic degradation (McKim, S. (1153) 315)

Rat liver
Cobalamin metabolism; Cob(III)alamin reductase; Cyanocobalamin β-ligand transferase; *cbl C, cbl D*, and *cbl E* mutant fibroblasts (Pezacka, E.H. (1157) 167)

Rat liver ischemia
NMR, ^{31}P-; NMR, ^{19}F-; Liver hormone; Adenosine triphosphate (Walsh, T.R. (1181) 7)

Rat liver microsome
Chemiluminescence; Light emission; Ferritin; Oxygen radical; Paraquat (Puntarulo, S. (1157) 1)

RBL cell
Calcium store; Intracellular calcium regulation; Inositol 1,4,5-trisphosphate; Mast cell (Mohr, F.C. (1147) 105)

Calcium store; Intracellular calcium regulation; Inositol trisphosphate; Mast cell (Hershey, P.E.C. (1147) 115)

RDS
Synthetic peptide; Serum inactivation; Inactivation reversal; Pulsatile bubble surfactometer; Calcium; Infant serum (Amirkhanian, J.D. (1168) 315)

Reaction center
Cytochrome *c*; Electron transfer; Redox potential; Heme; Membrane potential; (*Rs. molischianum*) (Nagashima, K.V.P. (1140) 297)

Energy-transducing system; Membrane protein assembly; Cytochrome *b/f*; Cytochrome *b/c*; Supercomplex (Joliot, P. (1141) 151)

EPR; Quinone acceptor orientation; Photosynthesis; Charge separation; (Bacteria) (Füchsle, G. (1142) 23)

Femtosecond spectroscopy; Fluorescence; Photosynthesis; (*Rb. sphaeroides*); (*C. aurantiacus*) (Hamm, P. (1142) 99)

Photosystem II; Radical pair recombination; Core complex; Photoinactivation (Liu, B. (1142) 129)

Bacteriochlorophyll; Special pair; Radical cation; Infrared spectroscopy; (Photosynthetic bacterium) (Morita, E.H. (1142) 146)

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Chloroplast NADP-malate dehydrogenase; Regulatory sequence; Limited proteolysis; Amino-terminal truncation (Ocheretina, O. (1163) 10)

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Topa quinone; Cyclic voltammetry; Acid-dissociation constant; Redox catalysis; Electronic structure (Kano, K. (1157) 324)

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Chloroplast NADP-malate dehydrogenase; Redox modification; Limited proteolysis; Amino-terminal truncation (Ocheretina, O. (1163) 10)

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Renal hypertrophy
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Retinol-binding protein
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Pigment epithelium; Monoclonal antibody; 11-*cis*-Retinal; Rhodopsin; Visual cycle; (Retina) (Suzuki, Y. (1163) 201)

Retinoyl β-D-glucuronide
UDP-glucuronosyltransferase; Kinetics; Retinoic acid; Glucuronidation; Liposome; Microsome (Salyers, K.L. (1152) 328)

Retropseudogene
Non-histone protein HMG1; Genomic sequence; Evolution; (Human cell) (Štros, M. (1172) 231)

Retrotransposon
Reverse transcriptase; Retrovirus; Chimeric enzyme; (*D. melanogaster*) (Kanda, T. (1163) 223)

Retrovirus
Reverse transcriptase; Retrotransposon; Chimeric enzyme; (*D. melanogaster*) (Kanda, T. (1163) 223)

Reverse cholesterol transport
Liposome; Cholesterol; Atherosclerosis (Rodrigueza, W.V. (1153) 9)

HDL; Immunoaffinity chromatography; Apolipoprotein; Cell culture (Oikawa, S. (1165) 327)

Lipoprotein; HDL; LDL; Liver; Selective uptake; Cholesteryl ester metabolism; Plasma membrane (Rinninger, F. (1166) 284)

HDL; Coronary heart disease; Preβ apo A-I; Subpopulation; Plasma lipoprotein; Electrophoresis, two-dimensional; Ultracentrifugation (Asztalos, B.F. (1169) 291)

Interstitial fluid; Prenodal peripheral lymph; Apo A-I-containing subpopulation; Two-dimensional electrophoresis (Asztalos, B.F. (1169) 301)

Reverse micelle
Lipase; Kinetics; Conformation; Protein-membrane/interface interaction; 1,2-*O*-Dilauryl-*rac*-glycero-3-glutaric acid-resorufin ester (Brown, E.D. (1161) 66)

Reverse-phase evaporation method
Liposome; Drug delivery system; Controlled drug release; 5-Fluorouracil; Extrusion method (Elorza, B. (1153) 135)

Reverse transcriptase
Poly(A)$^+$ mRNA; Oligo(dT)-latex bead (Kuribayashi-Ohta, K. (1156) 204)

Retrovirus; Retrotransposon; Chimeric enzyme; (*D. melanogaster*) (Kanda, T. (1163) 223)

Sulfonic acid polymer; HIV-1; HIV-2; Inhibition (Tan, G.T. (1181) 183)

Reversed micelle
Membrane–melittin interaction; Melittin folding; Frequency domain fluorometry; Fluorometry; Lifetime distribution (Bismuto, E. (1146) 213)

Reversible binding
Plasminogen; Plasminogen activator; Plasminogen activator inhibitor-1; Tissue-type plasminogen activator; Urokinase (Mimuro, J. (1160) 325)

RGD sequence
Vitronectin; Cell-spreading; Heat resistance; Autoclave resistance; Sterilization (Miyazaki, K. (1159) 215)

Rheumatoid arthritis
Amyloid A protein; Serum amyloid A protein; Amino acid sequence; Mass spectrometry (Baba, S. (1180) 195)

Fibrinolysis; Streptokinase; Fibronectin; Autoimmunity (Gonzalez-Gronow, M. (1180) 283)

Long chain fatty acid; T cell; Systemic lupus erythematosus; (Mouse) (Ando, S. (1181) 141)

Rhodopsin
Rhodopsin phosphorylation; Monoclonal antibody; Disk membrane; Plasma membrane (Hsu, Y.-T. (1145) 85)

Retinol dehydrogenase; Pigment epithelium; Monoclonal antibody; 11-*cis*-Retinal; Visual cycle; (Retina) (Suzuki, Y. (1163) 201)

Rhodopsin kinase
Light adaptation; Response inactivation; Calcium ion, intracellular store; Protein kinase C; Rhodopsin phosphatase (Selinger, Z. (1179) 283)

Rhodopsin phosphatase
Light adaptation; Response inactivation; Calcium ion, intracellular store; Protein kinase C; Rhodopsin kinase (Selinger, Z. (1179) 283)

Rhodopsin phosphorylation
Rhodopsin; Monoclonal antibody; Disk membrane; Plasma membrane (Hsu, Y.-T. (1145) 85)

Rhoptry
Matrix metalloproteinase; (*P. falciparum*) (Locher, C.P. (1160) 275)

RIA
Parathyroid hormone; Protein characterization; (Parathyroid gland) (Connor, C. (1178) 81)

ribG
Riboflavin; Bioluminescence; dCMP deaminase; (*V. fischeri*) (Lee, C.Y. (1143) 337)

Riboflavin
Bioluminescence; *ribG*; dCMP deaminase; (*V. fischeri*) (Lee, C.Y. (1143) 337)

Riboflavin transport
Basolateral membrane; Water-soluble micronutrient transport; Intestinal transport; (Rabbit small intestine) (Said, H.M. (1148) 263)

Ribonuclease inhibitor
Angiogenesis; Ribonuclease superfamily; Tryptophan fluorescence; Homology (Bond, M.D. (1162) 177)

Ribonuclease superfamily
Angiogenesis; Ribonuclease inhibitor; Tryptophan fluorescence; Homology (Bond, M.D. (1162) 177)

Ribonucleoprotein
Single-stranded nucleic acid binding protein; mRNA splicing (Cusick, M.E. (1171) 176)

Ribonucleotide reductase
cDNA sequence; M2 subunit; Hydroxyurea; (Hamster) (Chaudhuri, M.M. (1171) 117)

Ribosomal gene promotor
Trypanosome DNA binding protein; Characterization; Purification; (*T. brucei*) (Mburu, P.W. (1172) 5)

Ribosomal protein
Insulin; Growth factor; Ribosomal protein S6; Protein kinase; cyclic-AMP-dependent protein kinase (Donella-Deana, A. (1178) 189)

60S ribosomal protein kinase
Synthetic peptide; Acidic ribosomal protein; Kinetics; (Yeast) (Grankowski, N. (1158) 194)

Ribosomal protein L12
Chloroplast ribosome; cDNA sequence; (Rye); (*S. cereale* L.) (Schmidt, M. (1172) 349)

Ribosomal protein L30
Gene structure; *Cis* control element; (Chicken) (Nakasone, K. (1174) 75)

Ribosomal protein operon
secY gene; Protein export; Secretion; Cyanobacterium; (*Synechococcus* PCC7942) (Nakai, M. (1171) 113)

Ribosomal protein S5
Nucleotide sequence; Mitochondrion; rRNA large subunit; Self-splicing intron; (*P. chrysogenum*) (Naruse, A. (1172) 353)

Ribosomal protein S6
Nucleotide sequence; cDNA cloning (Spencer, T.A. (1172) 332)

Insulin; Growth factor; Ribosomal protein; Protein kinase; cyclic-AMP-dependent protein kinase (Donella-Deana, A. (1178) 189)

Ribosomal subunit
Ribosome; Magnesium ion; Fluorescence; Bound ethidium bromide; (*E. coli*) (Bonincontro, A. (1174) 27)

Ribosome
Ribosomal subunit; Magnesium ion; Fluorescence; Bound ethidium bromide; (*E. coli*) (Bonincontro, A. (1174) 27)

Elongation factor G; GTPase; Regulation; Translocation (Nagel, K. (1174) 153)

Ribosome binding
tRNA–ribosome interaction; (Human); (*E. coli*) (Graifer, D.M. (1171) 56)

Rickets
Hyaluronate; Proteoglycan; Bone; Vitamin D; Chick (Dickson, I.R. (1181) 15)

Rieske-type cluster
Iron-sulfur protein; Iron-sulfur cluster; Resonance Raman spectroscopy (Kuila, D. (1140) 175)

Right-side-out membrane vesicle
ATPase, Kdp^-; Potassium transport; Phosphoglycerate transport; ATP generation; (*E. coli*) (Kollmann, R. (1143) 62)

RNA
PCR; cDNA cloning; Ig superfamily; Sequence homology; (Dog thymus) (Milde, K.F. (1172) 315)

RNA nuclease-protection assay
Antithrombin III; cDNA cloning; In vitro translation (Amrani, D.L. (1171) 239)

RNA-polymerase
Conformational transition; Fluorescent label (Ozoline, O.N. (1172) 251)

RNA processing
Protein, 70K; cDNA; Splicing; U1 snRNP; (*A. thaliana*) (Reddy, A.S.N. (1171) 88)

Calcium ion-transport ATPase; Myogenic cell (De Jaegere, S. (1173) 188)

RNA splicing
Congenital cataract; ζ-Crystallin; cDNA cloning (Rodriguez, I.R. (1180) 44)

mRNA
Enterocyte; Sodium ion/glucose transporter; Gene expression; Post-transcriptional regulation; Hybridization, in situ; (Ovine) (Freeman, T.C. (1146) 203)

Ventricle; Sodium ion pump; ATPase, Na^+/K^+-; Cardiomyopathy; Pulmonary hypertension; (Human); (Heart) (Zahler, R. (1149) 189)

Apolipoprotein A-IV; Intestinal apo A-IV; Serum triacylglycerol; Triacylglycerol; Fat absorption; Fat secretion; (Rat pups) (Sato, M. (1165) 93)

HMG-CoA reductase; Simvastatin; Cholestyramine; Apolipoprotein synthesis; Hypolipemia; (Rat liver) (Mitchell, A. (1167) 9)

Essential fatty acid; Stearoyl-CoA desaturase; CCAAT/enhancer-binding protein; Development (DeWille, J.W. (1170) 291)

Mitochondrion; Mitochondrial protein; Nuclear gene; Respiratory chain; Electron transport; Recombinant DNA; Nucleotide sequence analysis (Sadlock, J.E. (1172) 223)

Insulin-like growth factor; IGF-II; cDNA; (Sheep) (Demmer, J. (1173) 79)

Translation, in vitro; Spleen inhibitor; Translation control; Trypsin inhibitor; Precursor; Aprotinin; (Bovine) (Gambacurta, A. (1174) 267)

Spermatogenesis; Heat shock cognate protein; Gene activation; (Mouse) (Matsumoto, M. (1174) 274)

Proximal tubule; Inorganic phosphate; Expression cloning; (OK cell); (Opossum kidney) (Sorribas, V. (1178) 141)

Acute liver damage; Liver fibrosis; Carbon tetrachloride model; Fibronectin, ED-A positive; In situ hybridization (Odenthal, M. (1181) 266)

Pancreas; Microtubule-associated protein; Northern blotting; PCR (Neuville, P. (1181) 317)

mRNA, capped
mRNA stability; Degradation protection (Coutts, M. (1173) 49)

mRNA degradation
5′ Exoribonuclease (Coutts, M. (1173) 57)

mRNA efflux
NTPase; Nuclear envelope; (Rat liver) (Sabbatini, G.P. (1153) 132)

mRNA, pre-
Splicing; hnRNP protein; non-snRNP splicing factor (Lamm, G.M. (1173) 247)

mRNA splicing
Ribonucleoprotein; Single-stranded nucleic acid binding protein (Cusick, M.E. (1171) 176)

mRNA stability
Surfactant-associated protein; Glucocorticoid; Transcription; Lung development (Xu, J. (1169) 146)

1,25-Dihydroxyvitamin D-3; c-*myc*; HL-60 (Mangasarian, K. (1172) 55)

mRNA, capped; Degradation protection (Coutts, M. (1173) 49)

Poly(ADP-ribose) polymerase; Gene expression; PCR (Negroni, M. (1173) 133)

rRNA large subunit
Nucleotide sequence; Mitochondrion; Ribosomal protein S5; Self-splicing intron; (*P. chrysogenum*) (Naruse, A. (1172) 353)

tRNA
Subtilisin inhibitor; Minor codon; *bldA*; Translational efficiency; (*Streptomyces*) (Ueda, Y. (1172) 262)

tRNA gene
Promoter; Direct repeat; (*T. celer*); (*Archaea*) (Klenk, H.-P. (1172) 236)

rRNA large subunit
Nucleotide sequence; Mitochondrion; Ribosomal protein S5; Self-splicing intron; (*P. chrysogenum*) (Naruse, A. (1172) 353)

tRNA–ribosome interaction
Ribosome binding; (Human); (*E. coli*) (Graifer, D.M. (1171) 56)

RNAase T_1
Relaxation kinetics; Temperature jump; Conformational change; Isomerization; Nucleotide binding (Walz, Jr., F.G. (1159) 327)

hnRNP A1
cDNA cloning; Vitamin A; Gene expression; Tracheobronchial epithelium (An, G. (1172) 292)

hnRNP protein
Splicing; mRNA, pre-; non-snRNP splicing factor (Lamm, G.M. (1173) 247)

non-snRNP splicing factor
Splicing; mRNA, pre-; hnRNP protein (Lamm, G.M. (1173) 247)

Rod outer segment membrane
Photoreceptor; cGMP phosphodiesterase; Transducin; Site-directed mutagenesis (Lipkin, V.M. (1176) 250)

ROESY spectrum
Paliurine B; Ionophore; Distance-geometry calculation; Restrained energy minimization; Rotating frame nuclear Overhauser effect (Yu, C. (1156) 334)

Opioid peptide; Distance-geometry calculation; Restrained molecular dynamics simulation; NMR (Chuang, L.-C. (1158) 209)

Rose Bengal
Atherosclerosis; Flow chamber; Intercellular adhesion molecule 1; Vascular cell adhesion molecule 1; Myeloperoxidase (Jeng, J.-R. (1178) 221)

Rotating frame nuclear Overhauser effect
Paliurine B; Ionophore; ROESY spectrum; Distance-geometry calculation; Restrained energy minimization (Yu, C. (1156) 334)

Rotational diffusion
Erythrocyte membrane; Band 3; Time-resolved phosphorescence anisotropy; Ovalocyte; Erythrocyte morphology (Tilley, L. (1181) 83)

Rotenone inhibition
NADH-ubiquinone reductase; Respiratory chain; Electron transfer; (Bovine heart mitochondrion) (Kotlyar, A.B. (1140) 169)

Rotenone insensitivity
Mitochondrion; NAD(P)H dehydrogenase; Inner membrane; Enzyme purification; Protein purification; Respiratory chain; (Plant) (Rasmusson, A.G. (1141) 107)

Rubidium-86 outflow
Sodium nitroprusside; Calcium-45 uptake; Calcium-45 outflow; Calcium flux; Potassium channel; Insulin release; (Rat pancreatic islet cell) (Antoine, M.-H. (1175) 293)

Rubisco activase
cDNA sequence; In vitro translation; (*Cucumis sativus*) (Preisig-Müller, R. (1171) 205)

Ruminant lipoprotein metabolism
Nucleotide sequence; cDNA; PCR (Edwards, W.D. (1172) 167)

Rusticyanin
Amino acid sequence; Copper protein; Secondary structure prediction; Blue copper protein; (*T. ferrooxidans*) (Nunzi, F. (1162) 28)

Ryanodine receptor
Sarcoplasmic reticulum; Phosphorylation; Muscle; Calcium; Calcium ion channel (Strand, M.A. (1175) 319)

S

S100
Calcium; Disulfide; Lipid; Growth factor; Neurotrophic factor (Barger, S.W. (1160) 105)

S-100a
Tryptophan; Phase fluorometry; Phospholipid (Zolese, G. (1162) 47)

Safflower oil
($n-3$) Fatty acid; ($n-6$) Fatty acid; Aging; Deformability; Fish oil; (Erythrocyte) (Mills, D.E. (1149) 313)

Salivary gland
VEG protein; cDNA sequence; Lipocalin superfamily; Taste peri-receptor event; (Human) (Bläker, M. (1172) 131)

Signal transduction; Galactosyltransferase; Tyrosine phosphorylation; Epidermal growth factor (Purushotham, K.R. (1178) 40)

Salt bridge reagent
Carbonic anhydrase II; Cyanogen; Molecular modeling (Ghenbot, G. (1161) 59)

Salt effect
Acetylcholinesterase; Polyelectrolyte (Tõugu, V. (1157) 199)

Salt gradient
Phosphatidylcholine; Unilamellar vesicle; Osmotic sensitivity; Thermodynamic stability (Lerebours, B. (1152) 49)

Samarium-cobalt magnet
Human gingival fibroblasts; Cell growth; Energy metabolism, 0.2 T magnetic field (Yamaguchi, H. (1156) 302)

Sandhoff disease
Hexosaminidase; Genetic compound; Amino acid substitution (Bolhuis, P.A. (1182) 142)

Saponin
Membrane fluidity; FRAP; Intracellular calcium ion; Calcium ion, intracellular (Ishida, H. (1145) 58)

Anti-peptide antibody; Sodium ion channel; Electron microscopy; Immunoblot; Proteinase digestion (Nakayama, H. (1145) 134)

Saponin-skinned fiber
Skeletal muscle; Oxidative phosphorylation; Fluorescence microscopy; Mitochondrial myopathy; Mitochondrial encephalomyopathy; (Human) (Kunz, W.S. (1144) 46)

Sarcolemma
Muscle; Myotonia; ADR; Fatty acid; Sarcoplasmic reticulum (Birkle, D.L. (1146) 236)

Sarcolemmal exchange
Amino acid; Skeletal muscle; Hindlimb (Hundal, H.S. (1180) 137)

Sarcoplasmic reticulum
Muscle; Myotonia; ADR; Fatty acid; Sarcolemma (Birkle, D.L. (1146) 236)

ATPase, (Ca^{2+} + Mg^{2+})-; Fluorescence; Resonance energy transfer; Covalent modification (Mata, A.M. (1147) 6)

Alamethicin; ATPase, Ca^{2+}-; ATPase, Na^{+}/K^{+}-; Brain microsome; Platelet; Proteoliposome; Bilayer lipid membrane (Ritov, V.B. (1148) 257)

Calmodulin; Phospholamban; Phosphorylation; Affinity labeling; Limited proteolysis (Strasburg, G.M. (1149) 249)

ATPase, Ca^{2+}-; Fluoride; Magnesium; Inhibition; Tight binding (Kubota, T. (1163) 131)

GTP-binding protein; Low molecular weight GTP-binding protein (Kutchai, H. (1175) 140)

Skeletal muscle; Protein kinase; Calcium channel; Serine phosphorylation; Phosphorylation site (Suko, J. (1175) 193)

Ryanodine receptor; Phosphorylation; Muscle; Calcium; Calcium ion channel (Strand, M.A. (1175) 319)

SAT
cDNA sequence; Polyamine metabolism; BESM; (Hamster) (Pegg, A.E. (1171) 106)

Saturated fatty acid
Chain-shortening; Desaturation; Deuterium; Absorption; (Human) (Emken, E.A. (1170) 173)

Saturated phosphatidylcholine
Phosphatidylcholine; Cholesterol; Lipid bilayer; Gel state; Merocyanine 540; Visible absorption spectrum; Fluorescence band; Surface property (Bernik, D.L. (1146) 169)

Saturation transfer
Lipid–protein interaction; Spin label; Myelin; Proteolipid protein; Lipid gel phase; EPR (Horváth, L.I. (1147) 277)

Scavenger receptor
Acetyl-LDL; LDL; Steroidogenesis; (Rat luteal cell) (Chen, Z. (1150) 79)

HDL; Acetylated HDL; Macrophage; HDL receptor; Chemical modification (Miyazaki, A. (1170) 143)

SCH 28080
Membrane potential; Voltage clamp technique; Gastric mucosa; Thiocyanate ion; Cimetidine; (*R. pipiens*) (Carrasquer, G. (1149) 195)

Schiff base
Bacteriorhodopsin; Purple membrane; Delipidation; Anesthetic; Opsin shift; Acid-base equilibrium (Messaoudi, S. (1140) 45)

Schistosome
Calpain; Calcium ion binding protein; Membrane turover; Syncytial epithelium (Siddiqui, A.A. (1181) 37)

Scleroderma
DNA topoisomerase I; Mitochondrion; Platelet; Topotecan; (Human) (Kosovsky, M.J. (1164) 101)

Scott syndrome
Platelet microparticle; Coagulation; Phospholipid asymmetry; Sickle cell; Anti-phospholipid antibody (Zwaal, R.F.A. (1180) 1)

Screening test
Plasma membrane; Protein reconstitution; Monoclonal antibody; Membrane protein; ATPase, H^{+}-; (Plant) (Gaymard, F. (1150) 73)

secY gene
Protein export; Secretion; Ribosomal protein operon; Cyanobacterium; (*Synechococcus* PCC7942) (Nakai, M. (1171) 113)

Secondary structure
Nicotinic acetylcholine receptor; FTIR; Lipid–protein interaction; Desensitization; (*T. californica*) (Butler, D.H. (1150) 17)

PTHrP; FTIR; Peptide (McFarlane, D.R. (1162) 187)

Epoxide hydrolase; Lipid–protein interaction; Raman spectroscopy (Ivanov, Y.D. (1162) 217)

FTIR; Crystallin; Fourier self-deconvolution; Curve fitting; Polypeptide conformation; (Lens) (Lamba, O.P. (1163) 113)

Protein purification; *S*-Adenosylhomocysteine hydrolase; Immunology; Thermophile; (*S. solfataricus*) (Porcelli, M. (1164) 179)

FTIR; Protein structure; Acyl carrier protein; Protein solution structure (Ernst-Fonberg, M.L. (1164) 273)

Pulmonary surfactant; Hydrophobic protein; Circular dichroism; α-Helical content; Reconstitution (Pérez-Gil, J. (1168) 261)

Apolipoprotein; Amphipathic helix; Lipid–protein interaction; Computer modelling; Synthetic peptide (Brasseur, R. (1170) 1)

Secondary structure prediction
myo-Inositol monophosphatase; Circular dichroism; Raman spectroscopy; Fluorescence; Thermostability (Ganzhorn, A.J. (1161) 303)

Amino acid sequence; Rusticyanin; Copper protein; Blue copper protein; (*T. ferrooxidans*) (Nunzi, F. (1162) 28)

Cytochrome *c*; Low-molecular-weight monohemic cytochrome *c*; Protein sequence; Sulfate-reducing bacterium (Bruschi, M. (1162) 89)

Second messenger
cyclic ADP-ribose; Calcium mobilization; ADP-ribosyl cyclase; cyclic ADP-ribose hydrolase (Lee, H.C. (1164) 68)

Second messenger regulation
Phosphatidic acid; Phosphatidic acid phosphohydrolase; Neutrophil; Signal transduction (Taylor, G.S. (1175) 219)

SEC61p
Membrane proliferation; Cytochrome *P*-450; KAR2p; Coinduction; Colocalization (Wiedmann, B. (1153) 267)

Secreted protein
Fibroblast; Aging; Interferon γ (Eleftheriou, C.S. (1180) 304)

Secretion
secY gene; Protein export; Ribosomal protein operon; Cyanobacterium; (*Synechococcus* PCC7942) (Nakai, M. (1171) 113)

Secretory pathway
GTP-binding protein; Membrane; (human platelet) (Nagata, K.-i. (1160) 193)

Secretory vesicle
Proton/electron transfer; Ascorbic acid; Cytochrome *b*-561 (Njus, D. (1144) 235)

Chromogranin B; pH-dependent binding; Matrix protein; Vesicle membrane (Yoo, S.H. (1179) 239)

Se-dependent glutathione peroxidase
Ascorbic acid; Dehydroascorbic acid reductase; Glutathione transferase; Catalase; Hydrogen peroxide; (Insect) (Summers, C.B. (1156) 235)

Sedimentation
Blood; Membrane; Electric conductivity; Erythrocyte sedimentation rate (Zhao, T.-X. (1153) 243)

Seed
γ-Linolenic acid; Δ^6-Desaturase; Membrane; Acylation; *Borago officinalis* (Galle, A.M. (1158) 52)

Selective deuteration
Thioredoxin; Protein folding; NMR, ^{1}H-; Amino acid (Wishart, D.S. (1164) 36)

Selective uptake
Lipoprotein; Receptor; HepG2 cell; HDL; Binding (Brissette, L. (1165) 84)

Lipoprotein; HDL; Liver; Cholesteryl ester; Cholesteryl ether; Hepatoma; Plasma membrane (Rinninger, F. (1166) 275)

Lipoprotein; HDL; LDL; Liver; Cholesteryl ester metabolism; Reverse cholesterol transport; Plasma membrane (Rinninger, F. (1166) 284)

Selectivity
Phosphatidic acid; CDP-diacylglycerol; Phosphatidylinositol; (Potato tuber); (Pea leaf); (Soya bean) (Justin, A.-M. (1165) 141)

Selenium
Selenoprotein; Diet; Glutathione peroxidase; Antioxidant; (Brain); (Rat) (Buckman, T.D. (1163) 176)

Lipid; Phospholipid; Metabolism; Heart; (Rat) (Liu, S.-Y. (1170) 307)

Selenoenzyme
Glutathione peroxidase; Tissue specificity; Gene expression; Transcription; (Guinea pig) (Himeno, S. (1173) 283)

Selenoprotein
Selenium; Diet; Glutathione peroxidase; Antioxidant; (Brain); (Rat) (Buckman, T.D. (1163) 176)

Self assembly
Critical aggregate concentration (CAC); Morphology; Peptidic lipid; DSC (Shimizu, T. (1147) 50)

Self-splicing intron
Nucleotide sequence; Mitochondrion; rRNA large subunit; Ribosomal protein S5; (*P. chrysogenum*) (Naruse, A. (1172) 353)

Seminalplasmin
Gene structure; (Bovine) (Kleine Kuhlmann, J. (1173) 85)

Seminal vesicle
Ubiquitin; cDNA; (Bovine) (Wempe, F. (1172) 209)

Sendai virus
Membrane fusion; Liposome; Glycosaminoglycan; Dextran sulfate; Poly(ethylene glycol) (Zschörnig, O. (1148) 1)

Virosome; Fusion; Drug delivery; Liver (Bagai, S. (1152) 15)

Hemagglutinin; Neuraminidase; Allosteric inhibition (Bellini, T. (1161) 323)

Septic shock
Pseudomonal elastase; Hageman factor; Bradykinin; Kallikrein-kinin system (Khan, M.M.H. (1157) 119)

Pseudomonal elastase; Bacterial proteinase; Endotoxin; Low resistant shock; (*Pseudomonas aeruginosa*) (Hossain Khan, M.M. (1182) 83)

Sequence
Antibody; Photophosphorylation; Reconstitution (Hoesche, J.A. (1142) 293)

Erythrocyte AMP deaminase; AMP deaminase; cDNA; Cloning (Yamada, Y. (1171) 125)

Origin; Transcript; cDNA; DNA replication; (Mammalian) (Wu, C. (1174) 241)

Sequence analysis
α-Macroglobulin; Egg-white protein; Thiol ester mutation (Nielsen, K.L. (1162) 230)

Apolipoprotein C-III; Apolipoprotein A-IV; Cloning; Cynomolgus; (*M. fascicularis*) (Osada, J. (1172) 335)

Apolipoprotein A-II; Cloning; Cynomolgus; (*M. fascicularis*) (Osada, J. (1172) 340)

Kallikrein gene; Gene cloning; (Monkey); (Human) (Lin, F.-K. (1173) 325)

Esterase; Nucleotide sequence; Cloning; (*Pseudomonas*) (Shimada, Y. (1174) 79)

Sequence comparison
Mitochondrial import site protein; Protein translocation; Open reading frame; (*E. coli*) (Cartwright, P. (1153) 345)

Pigeon lens; δ-Crystallin; Argininosuccinate lyase; Glycogen; Polymerase chain reaction; (*C. livia*) (Chiou, S.-H. (1160) 317)

Histone H1d gene; Sequencing; (Rat); (Human) (Drabent, B. (1172) 193)

Topoisomerase II; PCR; (HeLa cell) (Austin, C.A. (1172) 283)

NHE1; cDNA cloning; Structure–function study (Counillon, L. (1172) 343)

Casein kinase-2; Gene expression; Protein characterization; (Maize) (Boldyreff, B. (1173) 32)

nifW; Nitrogen fixation; (*Azospirillum*) (Milcamps, A. (1173) 237)

DnaJ; cDNA sequence; (Human) (Oh, S. (1174) 114)

Sequence conservation
Complex I; Mitochondrion; Sequence relationship (Fearnley, I.M. (1140) 105)

Sequence homology
Nickel hydrogenase; Complex I; Subunit; Relationship (Albracht, S.P.J. (1144) 221)

Molecular modeling; Cholesterol; Membrane topology; Cytochrome *P*-450_{scc} (Vijayakumar, S. (1160) 281)

RNA; PCR; cDNA cloning; Ig superfamily; (Dog thymus) (Milde, K.F. (1172) 315)

GTP-binding protein; Palmitoylation; Prenylation; (*P. Polycephalum*) (Kozlowski, P. (1173) 357)

Alpha-1 acid glycoprotein; Gene assignment; Lipocalin; Gene sequence; (Rodent) (Chan, P. (1174) 195)

GTP-binding protein; Palmitoylation; Prenylation; Nucleotide sequence; (*P. polycephalum*) (Kozlowski, P. (1174) 299)

Sequence relationship
Complex I; Mitochondrion; Sequence conservation (Fearnley, I.M. (1140) 105)

Sequencing
Histone H1d gene; Sequence comparison; (Rat); (Human) (Drabent, B. (1172) 193)

Serine phosphorylation
Skeletal muscle; Protein kinase; Calcium channel; Phosphorylation site; Sarcoplasmic reticulum (Suko, J. (1175) 193)

Serine proteinase
Plasminogen activation; α_2-Antiplasmin; Histidine-rich glycoprotein; Fibrin; Fibrinolysis (Angles-Cano, E. (1156) 34)

Protein purification; Gene cloning; Amino acid sequence; Substrate specificity; (*S. fradiae*) (Kitadokoro, K. (1163) 149)

NMR; NMR, ^{19}F-; Boronic acid; Nuclear Overhauser effect; Protein dynamics (Sylvia, L.A. (1163) 321)

Cold adaptation; Elastase; Poikilotherm; (*G. morhua*) (Ásgeirsson, B. (1164) 91)

Bacteriophage T5-$P_{N_{25}}$; Lac operator; Fluorescent substrate; Prolylendopeptidase; (Porcine brain) (Sommer, J. (1173) 289)

Hepsin; Proteinase, membrane-bound; cDNA sequence; (Rat liver) (Farley, D. (1173) 350)

Hageman factor; Kallikrein-kinin system; Bacterial proteinase; Pseudomonal elastase; Serratial E15 proteinase (Semba, U. (1180) 267)

Serology
Neoplasm; Tumor-associated antigen; Antibody; Autologous antibody; Immunology; (Head); (Neck) (Vlock, D.R. (1181) 174)

Melanoma; Tumor-associated antigen; Immunology (Toporowicz, A. (1182) 51)

Serratial E15 proteinase
Hageman factor; Kallikrein-kinin system; Serine proteinase; Bacterial proteinase; Pseudomonal elastase (Semba, U. (1180) 267)

Serum albumin
Doxorubicin; *N*-Hydroxysuccinimide ester; Surface pH; Fatty acid sensor (Demant, E.J.F. (1156) 151)

Truncated variant; Splice-site mutation; Low expression; (Albumin Rugby Park) (Peach, R.J. (1180) 107)

Low level variant; Amino acid substitution; Protein electrophoresis, two-dimensional; Disulfide bridge (Brennan, S.O. (1182) 46)

Serum amyloid A
Alpha-1 acid glycoprotein; Heavy metal; Gene regulation (Yiangou, M. (1174) 123)

Amyloid; Baculovirus (Kluve-Beckerman, B. (1182) 303)

Serum amyloid A protein
Amyloid A protein; Rheumatoid arthritis; Amino acid sequence; Mass spectrometry (Baba, S. (1180) 195)

Serum amyloid P
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Serum condition
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Serum factor
5-Lipoxygenase; Enzyme regulation; (HL60 cell) (Steinhilber, D. (1178) 1)

Serum inactivation
Synthetic peptide; RDS; Inactivation reversal; Pulsatile bubble surfactometer; Calcium; Infant serum (Amirkhanian, J.D. (1168) 315)

Serum-restriction
Myometrium; Calcium (Morgan, J.M. (1158) 98)

Serum triacylglycerol
Apolipoprotein A-IV; mRNA; Intestinal apo A-IV; Triacylglycerol; Fat absorption; Fat secretion; (Rat pups) (Sato, M. (1165) 93)

Severe combined immunodeficiency disease
Adenosine deaminase deficiency; Deoxyadenosine toxicity; Human T-lymphoblast; Cell swelling; Cytoskeleton; (CCRF-CEM cell) (Bagnara, A.S. (1180) 163)

Sex
Flavin-containing monooxygenase; *N*,*N*-Dimethylaniline *N*-oxidase; Immunoblot; Western transfer; Age; Trimethylamine (Schlenk, D. (1156) 103)

Sex-related difference
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Shape change
Lidocaine; Cationic drug; Local anesthetic; Carbonic anhydrase; (Human erythrocyte) (Nishiguchi, E. (1176) 95)

Short chain n-alkanol
Enhancement factor; Fluidity; Fluorescence anisotropy; Fluorescence lifetime; Stratum corneum lipid liposome (Kim, Y.-H. (1148) 139)

Short interspersed repeated element
Major histocompatability complex; MHC; 21-Hydroxylase; (Swine) (Burghelle-Mayeur, C. (1171) 153)

Short-term action
Thyroid hormone; Long-term action; Mitochondrion; Energy transfer (Soboll, S. (1144) 1)

Short-term glycation
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Shrinkage
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Sialic acid
Hydroxylase; *N*-Glycoloylneuraminic acid; CMP-*N*-acetylneuraminic acid; (Starfish); (*A. rubens*) (Schlenzka, W. (1161) 131)

Sialoglycoprotein
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Asian horseshoe crab; *Tachypleus tridentatus*; Glycophorin HA affinity chromatography (Tsuboi, I. (1156) 255)

α2,6-Sialyltransferase
Jejunal organ culture; Suckling rat; Dexamethasone (Hamr, A. (1157) 285)

Sickle cell
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Platelet microparticle; Coagulation; Phospholipid asymmetry; Scott syndrome; Anti-phospholipid antibody (Zwaal, R.F.A. (1180) 1)

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Sickle-cell anemia
Oxidant; Potassium/chloride cotransport; Potassium ion channel, calcium-activated; Sulfhydryl group; (Human erythrocyte) (Olivieri, O. (1176) 37)

Sickle cell erythrocyte
NMR, ^{13}C-; Glucose, ^{13}C-labeled; Erythrocyte; Glucose metabolism; Pentose phosphate pathway; (Human) (Schrader, M.C. (1182) 179)

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Signal sequence
Sodium–calcium ion exchange; In vitro translation; Glycosylation; Site-directed mutagenesis; Patch clamp (Hryshko, L.V. (1151) 35)

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Signal transduction
Protein tyrosine phosphatase; ELISA; Enzyme activity (Mishra, S. (1157) 93)

Fibrinogenase; Glycoprotein Ib (Huang, T.-F. (1158) 293)

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Arachidonic acid; Protein kinase C; Tumor promotion; Phorbol ester; (Rat brain) (Huang, X.P. (1175) 351)

Arachidonic acid; NADPH oxidase; Substrate affinity; Enzyme activation; (Cytoplasmic membrane); (Endosome) (Rubinek, T. (1176) 51)

Arachidonic acid; G protein; Phospholipase A_2; (Mouse macrophage) (Fernández, B. (1176) 169)

Cholecystokinin receptor, low affinity; (Pancreatic acinar cell) (Vinayek, R. (1176) 183)

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Gene expression, immediate early; Growth control; Protein kinase C; (CHO-K1 cell) (Ross, S. (1177) 307)

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Gene expression; Insulin; Protein phosphatase; Okadaic acid; cyclic AMP response element (Morrison, M.D. (1178) 135)

Phospholipase C; Tyrosine phosphorylation; (Platelet) (Tate, B.F. (1178) 281)

Phosphotyrosine phosphatase; Neutrophil; (Human) (Kansha, M. (1179) 189)

Muscarinic receptor; Receptor antagonist; Cyclic nucleotide; cyclic GMP; (Rat large intestine) (Khare, S. (1179) 234)

Silicic acid chromatography
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HMG-CoA reductase; Cholestyramine; Apolipoprotein synthesis; mRNA; Hypolipemia; (Rat liver) (Mitchell, A. (1167) 9)

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Single-channel conductance
Phosphate specificity; Anion channel; Outer membrane protein; Lipid bilayer membrane; (*P. aeruginosa*) (Benz, R. (1149) 224)

Single-channel current
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Single-stranded nucleic acid binding protein
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Singlet oxygen
Photosystem II; Reaction center; Photosynthesis; Triplet state; P680; Luminescence (Macpherson, A.N. (1143) 301)

Liposome; Photophysics; Photosensitizer; Polymer film; Cyanine dye (Krieg, M. (1151) 168)

Bacterial inactivation (Parker, J.G. (1157) 209)

Site-directed mutagenesis
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Photosynthesis; Reaction center; Electric potential generation; Quinone acceptor; (*Rb. sphaeroides*) (Shinkarev, V.P. (1142) 214)

a subunit; ATPase, F_0F_1-; Structure stabilization; Proline; Oxidative phosphorylation; (*E. coli*) (Howitt, S.M. (1144) 17)

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Sodium–calcium ion exchange; In vitro translation; Glycosylation; Signal sequence; Patch clamp (Hryshko, L.V. (1151) 35)

Cytochrome b_5; Hydrophobicity; Lipid vesicle; Membrane binding (Tretyachenko-Ladokhina, V.G. (1153) 163)

Calcium ion binding; EF-hand motif; T4 lysozyme; T4 (Leontiev, V.V. (1162) 84)

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Renal dipeptidase; Active site; Chemical modification (Adachi, H. (1163) 42)

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Rod outer segment membrane; Photoreceptor; cGMP phosphodiesterase; Transducin (Lipkin, V.M. (1176) 250)

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Site-directed polyclonal antibody
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Site-specific cleavage
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Site-specific mutagenesis
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SITS
DIDS; Chloride carrier; Charge pulse; Turgor pressure regulation; (*V. utricularis*) (Spieß, I. (1149) 93)

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Saponin-skinned fiber; Oxidative phosphorylation; Fluorescence microscopy; Mitochondrial myopathy; Mitochondrial encephalomyopathy; (Human) (Kunz, W.S. (1144) 46)

Fatty acid; Phospholipid; Myotube; Sodium ion current; Muscle membrane (Brinkmeier, H. (1145) 8)

ATPase, Ca^{2+}-; Thyroid hormone; Milrinone; (Rabbit) (Warnick, P.R. (1153) 184)

Acetylcholinesterase; Cell culture; Chick embryo; Fibroblast; Myogenesis; Plasma membrane (Elson, H.F. (1156) 78)

Protein kinase; Calcium channel; Serine phosphorylation; Phosphorylation site; Sarcoplasmic reticulum (Suko, J. (1175) 193)

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Glucose metabolism; Glycogen; Ethanol; Insulin (Cook, E.B. (1180) 207)

Skeletal muscle disorder
Lipid; Phenytoin; Dilantin; Fatty acid; Triacylglycerol (Fletcher, J.E. (1168) 292)

Skeletal muscle lymph
Lipoprotein; Apolipoprotein; Cholesterol; Peripheral lymph; (Dog) (Sloop, C.H. (1169) 196)

Skeletal muscle mitochondrion
Phosphate-dependent glutaminase; Glutamine metabolism; (Rat and human) (Świerczyński, J. (1157) 55)

Skin
Glycosaminoglycan; Vitamin E; Ultraviolet light; Infrared; ^{1}H-NMR spectroscopy; (Rat) (Longas, M.O. (1156) 239)

Psoriasis; Stratum corneum; Sphingosine; Phytosphingosine (Motta, S. (1182) 147)

S6 kinase
MAP kinase; Platelet activating factor; Platelet (Samiei, M. (1176) 287)

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Protein kinase C; Mucolipidosis type-4; Inborn error; (Human) (Boneh, A. (1182) 64)

Small angle scattering
Plasminogen; Plasminogen activation; Molecular model (Ponting, C.P. (1159) 155)

Small cell lung cancer
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Small GTP-binding protein
Osmoregulation; GTP-binding protein; Vesicular trafficking; Cell volume control; (*D. salina*) (Memon, A.R. (1179) 11)

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Amino acid transporter; Reconstitution; Proteoliposome; (Rabbit) (Nakanishi, M. (1151) 193)

Smoking
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Smooth muscle
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Phospholipase A_2; Phospholipid; Calcium; ATP; Icosanoid; Signal transduction (Miyake, R. (1165) 167)

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Snake venom
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Phospholipase A_2; Myotoxin; Cytotoxicity; Myoblast (Bultrón, E. (1179) 253)

Sodium
Transport; Facilitated transport; β-Alanine; GABA; Taurine; Baclofen; (Rat) (Polache, A. (1147) 267)

ATP; Potassium; Magnesium; K^+/Na^+ ratio; (Mammalian erthrocyte); (Avian erythrocyte) (Miseta, A. (1175) 133)

Platelet; Sodium ion–proton exchange; Thrombin; Epinephrine; Hypertension (Stamouli, V. (1176) 215)

Sodium azide
ATPase, F_0F_1-; Nucleotide binding; Binding inhibition; Submitochondrial particle; (Bovine heart) (Muneyuki, E. (1144) 62)

Sodium–calcium ion exchange
Squid axon; Sulfhydryl blocking agent (DiPolo, R. (1145) 75)

In vitro translation; Glycosylation; Signal sequence; Site-directed mutagenesis; Patch clamp (Hryshko, L.V. (1151) 35)

Cardiac sarcolemmal vesicle; Site-directed polyclonal antibody; Protein structure (Hale, C.C. (1160) 293)

Sodium channel
Anti-peptide antibody; Protein phosphorylation; Phosphorylation block; Phosphorylated peptide; (Rat brain) (Nakayama, H. (1175) 67)

Sodium-dependent phlorizin binding protein
Oligomeric structure; Western blot analysis; Phlorizin binding; Brush-border membrane; (Kidney); (Pig) (Gerardi-Laffin, C. (1151) 99)

Sodium fluoride
Calcium ion influx; Receptor-mediated platelet activation (Ozaki, Y. (1147) 27)

Sodium gradient
Phosphate transport; Plasma membrane vesicle; Liver (Jahan Younus, M. (1143) 158)

Sodium–hydrogen ion antiporter
Protein kinase C; Spreading (Novikova, I.Yu. (1178) 267)

Sodium–hydrogen ion exchange
Lithium–hydrogen ion exchange; Amiloride derivative; Intracellular pH; Thrombin activation; (Platelet) (Gende, O.A. (1152) 219)

Sodium ion
Erythrocyte; Magnesium ion; Magnesium–sodium ion exchange; Asymmetric membrane carrier; (Human) (Schatzmann, H.J. (1148) 15)

Magnesium ion influx; Cotransport; Chloride; Bicarbonate; Phosphate; (Rat hepatocyte) (Günther, T. (1149) 49)

Sodium ion antiporter
Benzpyrene; 3T3 cell; Microcalorimetry; Microcarrier; pH, intracellular (Gebreselassie, D. (1143) 211)

Sodium ion channel
Anti-peptide antibody; Saponin; Electron microscopy; Immunoblot; Proteinase digestion (Nakayama, H. (1145) 134)

Sodium ion–proton exchange; Plasma membrane vesicle (Oelberg, D.G. (1149) 19)

Sodium ion concentration
NMR, double quantum filtered ^{23}Na-; Erythrocyte (Tauskela, J.S. (1158) 155)

Sodium ion cotransport
Brush-border membrane vesicle; D-Mannose cotransport; (Kidney) (Silverman, M. (1153) 34)

D-Glucose cotransport; (Kidney) (Silverman, M. (1153) 43)

Sodium ion current
Fatty acid; Phospholipid; Skeletal muscle; Myotube; Muscle membrane (Brinkmeier, H. (1145) 8)

Sodium ion dependent transport
Phosphate transport; Insulin; (Hepatocyte) (Butterworth, P.J. (1148) 117)

Sodium ion / D-glucose cotransport
D-Glucose transport; Intestinal development; Temperature effect; Brush-border membrane vesicle; Kinetics; (Guinea pig) (Malo, C. (1153) 299)

Sodium ion efflux
Aluminum; Dipotassium hydrogen phosphate; (Barnacle fiber) (Bittar, E.E. (1148) 123)

Fluoride ion; Fluoroaluminate; Barnacle fiber (Bittar, E.E. (1152) 307)

Zinc ion; Muscle fiber; Inhibitory effect; (*B. nubilus*) (Xie, H. (1153) 219)

Sodium ion / glucose transporter
Enterocyte; mRNA; Gene expression; Posttranscriptional regulation; Hybridization, in situ; (Ovine) (Freeman, T.C. (1146) 203)

Sodium ion, intracellular
NMR, ^{23}Na-; (Salivary gland); (Rat) (Seo, Y. (1177) 111)

Cytosolic free calcium; Aequorin; Magnesium ion, intracellular; LDH; Phosphorylation potential (Gasbarrini, A. (1178) 9)

Sodium ion, potassium ion–chloride cotransport
Bumetanide; Anion dependent cation transport; (mTAL cell); (Mouse) (Kaji, D.M. (1152) 289)

Sodium ion / proton antiporter
Sodium ion transport, light-driven; DCCD inhibition; Sodium ion/proton exchange stoichiometry; Triple-tracer liquid scintillation counting; (*H. halobium*) (Konishi, T. (1140) 1)

Sodium ion–proton exchange
Epinephrine; Intracellular pH; pH, intracellular; (Platelet) (Nieuwland, R. (1148) 185)

Sodium ion channel; Plasma membrane vesicle (Oelberg, D.G. (1149) 19)

Sodium/potassium/chloride cotransport; Potassium/chloride cotransport; Shrinkage; Swelling; Cytoskeleton protein melting; (Erythrocyte); (Rat) (Orlov, S.N. (1151) 186)

Platelet; Sodium; Thrombin; Epinephrine; Hypertension (Stamouli, V. (1176) 215)

Sodium ion–proton exchanger
Intestinal transport; Kinetics; Expression (Honda, T. (1150) 199)

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Sodium ion / proton exchange stoichiometry
Sodium ion/proton antiporter; Sodium ion transport, light-driven; DCCD inhibition; Triple-tracer liquid scintillation counting; (*H. halobium*) (Konishi, T. (1140) 1)

Sodium ion pump
Ventricle; mRNA; ATPase, Na^+/K^+-; Cardiomyopathy; Pulmonary hypertension; (Human); (Heart) (Zahler, R. (1149) 189)

Sodium ion sensitivity
ATPase, Na^+/K^+-; Isoenzyme; Ouabain affinity; α-Linolenic acid; Brain membrane; Diet; (Weaned rat) (Gerbi, A. (1165) 291)

Sodium ion transport
Nucleoside transport; Nucleoside; Brush-border membrane; (Human kidney) (Gutierrez, M.M. (1149) 202)

Sodium ion transport, light-driven
Sodium ion/proton antiporter; DCCD inhibition; Sodium ion/proton exchange stoichiometry; Triple-tracer liquid scintillation counting; (*H. halobium*) (Konishi, T. (1140) 1)

Sodiummotive respiration
Motility; Sodium motor; Protonmotive respiration; (*Bacillus FTU*) (Bogachev, A.V. (1142) 321)

Sodium motor
Motility; Sodiummotive respiration; Protonmotive respiration; (*Bacillus FTU*) (Bogachev, A.V. (1142) 321)

Sodium nitroprusside
Cyanide release; Oxidation; Monocyte; Polymorphonuclear Leukocyte (Campbell, J.M. (1156) 327)

Calcium-45 uptake; Calcium-45 outflow; Rubidium-86 outflow; Calcium flux; Potassium channel; Insulin release; (Rat pancreatic islet cell) (Antoine, M.-H. (1175) 293)

Sodium / potassium / chloride cotransport
Sodium ion–proton exchange; Potassium/chloride cotransport; Shrinkage; Swelling; Cytoskeleton protein melting; (Erythrocyte); (Rat) (Orlov, S.N. (1151) 186)

Sodium / potassium ion cotransport
Alkenylacyl phosphatidylethanolamine; Sodium/potassium ion pump kinetics; Lipoprotein; Triacylglycerol-rich lipoprotein, elevated level; Hypercholesterolemia (Duhm, J. (1149) 185)

Sodium / potassium ion pump kinetics
Alkenylacyl phosphatidylethanolamine; Sodium/potassium ion cotransport; Lipoprotein; Triacylglycerol-rich lipoprotein, elevated level; Hypercholesterolemia (Duhm, J. (1149) 185)

Sodium-proton antiporter
Potassium-proton antiporter; Mitochondrion; Transport; (Yeast) (Welihinda, A.A. (1144) 367)

Sodium pump
Red cell membrane; ATPase; Transport activity; Acylphosphatase (Nassi, P. (1147) 19)

Sodium transport
Aminopeptidase M; Hypertensive rat; Renin; Two-dimensional electrophoresis (Salardi, S. (1182) 22)

Solid phase
Cooperativity; Antibody affinity; Monoclonal antibody (Werthén, M. (1162) 326)

Solubilization
Taurine transporter; Reconstitution; Brush-border membrane; (Human placenta) (Ramamoorthy, S. (1145) 250)

Neurotoxin; Toxin binding; Ganglioside; Protein acceptor; Synaptic membrane; (*C. botulinum*) (Nishiki, T.-i. (1158) 333)

Solute carrier family
ADP/ATP carrier; Mitochondrion; Primary structure; Gene structure; (Rat) (Shinohara, Y. (1152) 192)

Solution hybridization
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Solution structure
Staphylokinase; X-ray scattering small-angle; Thrombolytic therapy; Dynamic light scattering; Protein conformation (Damaschun, G. (1161) 244)

Soman
Butyrylcholinesterase; Arrhenius plot; Hydrostatic pressure; Conformational change (Cléry, C. (1159) 295)

Somatic mutation
V gene; DNA context; Classification (Rogozin, I.B. (1171) 11)

Somatostatin
Bombesin; Gastrin-releasing peptide; Hormone; Receptor (Fanger, B.O. (1179) 300)

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Dimyristoylphosphatidylcholine; Microcalorimetry; Negative stain electron microscopy; Thermodynamical study (Kodama, M. (1169) 90)

Special pair
Bacteriochlorophyll; Reaction center; Radical cation; Infrared spectroscopy; (Photosynthetic bacterium) (Morita, E.H. (1142) 146)

Photosynthesis; Reaction center; Stark spectroscopy (Middendorf, T.R. (1143) 223)

Specific heat
Binary lipid bilayer; Phase diagram; Local structure; Correlation function (Jørgensen, K. (1152) 135)

Spectral form
Photosynthesis; Chlorophyll protein; Light-harvesting chlorophyll-protein; LHC-II; CP-II; Stark spectrum (Krawczyk, S. (1143) 273)

β-Spectrin
cDNA cloning; Evolutionary conservation; (Canine) (Tan, S. (1172) 217)

Spectrophotometry
Superoxide; Superoxide dismutase; Kinetic analysis (Bolann, B.J. (1156) 27)

Spectroscopic study
Light harvesting complex; Antenna complex; Photosynthetic bacterium; (*Rhodopseudomonas palustris*) (Van Mourik, F. (1140) 85)

Sperm
Bindin; Phospholipid; Liposome; Recombinant protein; Adhesive protein (Miraglia, S.J. (1145) 191)

Phospholipase A_2; Arachidonic acid; Calcium; Bivalent cation; Exocytosis; Acrosome reaction (Roldan, E.R.S. (1168) 108)

Sperm-binding protein
Zona pellucida; cDNA; Oocyte; cDNA sequence; Nucleotide sequence; (Pig) (Yurewicz, E.C. (1174) 211)

Spermatogenesis
mRNA; Heat shock cognate protein; Gene activation; (Mouse) (Matsumoto, M. (1174) 274)

Spermatozoon
Acrosin; Ionophore A23187; Acrosome reaction (Moos, J. (1176) 199)

Spermidine
Spermine; Putrescine; Polyamine; Brush-border membrane vesicle; Polyamine uptake; (Rat intestine) (Kobayashi, M. (1151) 161)

Ethanol; Ethanol ingestion; Polyamine acetylation; Putrescine; (Rat liver) (Perin, A. (1156) 113)

Spermidine / spermine N^1-acetyltransferase
Polyamine; Liver regeneration (Ferioli, M.E. (1156) 291)

Spermine
Spermidine; Putrescine; Polyamine; Brush-border membrane vesicle; Polyamine uptake; (Rat intestine) (Kobayashi, M. (1151) 161)

Sphingomyelin
Plasmalogen phosphatidylethanolamine; Plasma; Phosphatidylcholine; Erythrocyte; Phospholipid (Engelmann, B. (1165) 32)

Cholesterol; Phosphatidylcholine; Cholesterol esterification; Cholesterol efflux; (Human skin fibroblast) (Stein, O. (1165) 153)

Sphingomyelinase; Copper; Ganglioside; Phosphatidylserine; GM3; (Rat) (Lister, M.D. (1165) 314)

Monensin; Ceramide; BHK (Kallen, K.-J. (1166) 305)

Sphingomyelinase
Copper; Sphingomyelin; Ganglioside; Phosphatidylserine; GM3; (Rat) (Lister, M.D. (1165) 314)

Sphingosine
Stearylamine; Phosphatidylserine; NMR, ^{31}P-; DSC (López-García, F. (1153) 1)

Diacylglycerol kinase; Isozyme; Jurkat cell (Yamada, K. (1169) 211)

Diacylglycerol kinase; Exogenous diacylglycerol; Jurkat cell (Yamada, K. (1169) 217)

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Lipid–protein interaction; Saturation transfer; Myelin; Proteolipid protein; Lipid gel phase; EPR (Horváth, L.I. (1147) 277)

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EPR; Phosphatidylglycerol; Lipid bilayer; Phospholipid (Snel, M.M.E. (1150) 155)

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Spin quantitation
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Spin trapping
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Brain ischemia; Common carotid occlusion; EPR; Nitric oxide (Sato, S. (1181) 195)

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Spleen macrophage
Drug carrier; Microsphere; Filtration; Kupffer cell; Spleen; Liver (Moghimi, S.M. (1157) 233)

Splice-site mutation
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Splicing
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S state
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Microtubule; Calcium ion; Calmodulin (Pirollet, F. (1160) 113)

Phospholipid; Monolayer; Surface film; Adsorption; Compression; Squeeze-out; Surface tension (Yu, S.-H. (1167) 264)

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Stabilizing effect
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Staphylokinase
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Starch
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Stark spectroscopy
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Stark spectrum
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Photosynthesis; Photosystem I; P700-enriched particle; Reaction center; CP-I; Chlorophyll-protein complex (Krawczyk, S. (1143) 282)

State of association
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State transition
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Stefin B
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Steroid hormone
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Steroid microcompartmentation
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Steroid / thyroid receptor superfamily
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Stratum corneum lipid
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Gene regulation; Heat-shock protein; HSP70; (*Tetrahymena*) (Amaral, M.D. (1174) 133)

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Stress protein
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Strophanthidin
ATPase, H^+-; ATPase, Ca^{2+}-; ATPase, H^+/K^+-; ATPase, Na^+/K^+-; Positive inotropic effect (Xu, K.-y. (1159) 109)

Structural analysis
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Structural dynamics
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Structural requirement
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Structure–activity relation
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Structure–activity relationship
Antimycin A; Cytochrome bc_1 complex; Electron transport (Tokutake, N. (1142) 262)

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Structure–activity relationship (quantitative)
Cytochrome bc_1 complex; Mitochondrion; Electron transport inhibition; (Rat liver) (Miyoshi, H. (1143) 23)

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Heterologous expression; Androstenedione; Androstenedione hydroxylation; Polychlorinated biphenyl; Cytochrome *P*-450 (Kedzie, K.M. (1164) 124)

Structure-function relationship
Chorionic gonadotropin; Monoclonal antibody; Antigenic determinant (Maurel, M.-C. (1159) 74)

Cytochrome *P*-450; ELISA; Mutant aromatase (Kadohama, N. (1163) 195)

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Structure stabilization
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Styryl dye
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Subcellular distribution
Phospholipase A_2; Gestation (Farrugia, W. (1166) 77)

Platelet-activating factor; Enzyme activity; Biosynthesis; (*T. pyriformis*) (Tsoukatos, D.C. (1170) 258)

Subcellular location
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Subcellular vesicle
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Subcutaneous administration
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Submitochondrial particle
Sodium azide; ATPase, F_0F_1-; Nucleotide binding; Binding inhibition; (Bovine heart) (Muneyuki, E. (1144) 62)

Subpopulation
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Subsite structure
α-Amylase; Isozyme purification; Active center; Energetic profile; (Barley malt) (Ajandouz, E.H. (1159) 193)

Substance P
Priming; Signal transduction; (Human neutrophil) (Lloyds, D. (1175) 207)

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Substrate affinity
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Substrate binding
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Site-directed mutagenesis; cyclic-AMP-dependent protein kinase; Substrate affinity (Tomoda, T. (1175) 333)

Substrate specificity
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Protein purification; Gene cloning; Amino acid sequence; Serine proteinase; (*S. fradiae*) (Kitadokoro, K. (1163) 149)

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Subtilisin
α-Chymotrypsin; Quantitative structure–activity relationship; Nucleophile specificity; Substrate specificity (Gololobov, M.Y. (1160) 188)

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Subtilisin inhibitor
Minor codon; *bldA*; tRNA; Translational efficiency; (*Streptomyces*) (Ueda, Y. (1172) 262)

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Photosystem I; Reaction center complex; Ferredoxin; *psaE* gene product; (*S. elongatus*) (Sonoike, K. (1141) 52)

Nickel hydrogenase; Complex I; Sequence homology; Relationship (Albracht, S.P.J. (1144) 221)

Glutathione *S*-transferase; Induction; Ethoxyquin; Phenobarbital; 3-Methylcholanthrene (Derbel, M. (1158) 175)

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Glutathione *S*-transferase; Amino acid sequence; (Human) (Ahmad, H. (1161) 333)

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Subunit asymmetry
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Subunit c
ATP synthase; Oligomycin sensitivity conferring protein (OSCP); ATPase inhibitor protein; IF_1; Proteolipid; DNA sequence; Protein sequence (Higuti, T. (1172) 311)

ATP synthase; ATPase; Proteolipid; DCCD-binding protein; Ceroid-lipofuscinosis; Batten's disease; (Human mitochondria) (Higuti, T. (1173) 87)

Subunit interaction
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Subunit V
Cytochrome-*c* oxidase; Conformational dynamics; Antibody binding (Freedman, J.A. (1164) 138)

β-Subunit
ATPase, F_1-; Signal sequence; Circular dichroism (Bruch, M.D. (1159) 81)

β1 subunit
ATPase, Na^+/K^+-; 5′ Flanking and exon sequence; (Chicken) (Takeyasu, K. (1172) 212)

Succinate
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Mitochondrion; Complex III (Taylor, R.W. (1181) 261)

Succinate dehydrogenase
Archaebacterium; Nucleotide sequence (Bach, M. (1174) 103)

Succinate-ubiquinone reductase
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Succinic thiokinase
Protein phosphorylation; cyclic AMP stimulation; Metabolic state; *Dictyostelium discoideum* (Schwandner, W.R.E. (1176) 175)

Succinylacetone
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Succinyl-CoA
Autophosphorylation; P36; (*D. discoideum*) (Anschutz, A.L. (1162) 40)

Suckling rat
α2,6-Sialyltransferase; Jejunal organ culture; Dexamethasone (Hamr, A. (1157) 285)

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Proton co-transport; Phloem; α-Glucoside; 4-Hydroxyphenyl β-D-fructofuranoside; (*A. graveolens*) (Griffin, S.D.J. (1152) 61)

Sugar
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Sugar kinase
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Sugar transport kinetics, nonlinear
Graphical analysis, misuse; Kinetics; Eadie-Hofstee plot; (*S. cerevisiae*) (Fuhrmann, G.F. (1145) 180)

Sulfated glycosaminoglycan
LDL; Dermatan sulfate; Chondroitin sulfate; Heparin; Fluorescence anisotropy (Gigli, M. (1167) 211)

Sulfate-reducing bacterium
Hydrogenase; EPR; Redox titration; Nickel; Iron-sulfur center (Franco, R. (1144) 302)

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Assimilatory sulfate reduction; Hydrogen sulfide : ferredoxin oxidoreductase; DNA sequence; Cyanobacterium; (*Synechococcus*) (Gisselmann, G. (1144) 102)

Sulfatide
Liposome; Drug carrier; Lipoprotein; pH sensitivity (Viani, P. (1147) 73)

Liposome; Phosphatidylcholine; Membrane stability; (Egg) (Noda, H. (1153) 127)

Calcitonin; Liposome; Blood-brain barrier; Biodistribution (Chen, D. (1158) 244)

Ganglioside; Cervical epithelium; Uterine endometrium; Fallopian tube (Takamatsu, K. (1170) 232)

Sulfation
Aryl sulfotransferase; Sulfotransferase; Oxime; Substituent effect (Mangold, J.B. (1163) 217)

Sulfhydryl blocking agent
Sodium–calcium ion exchange; Squid axon (DiPolo, R. (1145) 75)

Sulfhydryl group
Creatine kinase; Free radical; Superoxide anion radical; Hydrogen peroxide; (Rat heart mitochondrion) (Yuan, G. (1140) 78)

Glucose transport; Phenylarsine oxide; Hydrogen peroxide; Insulin; Cardiomyocyte (Fischer, Y. (1153) 97)

Hemoglobin; Ionizable group; Kinetics; Tertiary conformation (Okonjo, K.O. (1159) 303)

AMP deaminase; Regulatory protein; Chemical modification; Ligand-induced regulation (Nagel-Starczynowska, G. (1164) 261)

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Sulfhydryl reagent
Glutathione *S*-transferase; Glutathione peroxidase; Plasma membrane; Canalicular membrane; (Rat); (Liver) (Horbach, M.E. (1148) 61)

Sulfolipid
Alkylthio-*O*-acid ester; Alkylthio *S*-acid; (*Synechococcus* sp.); (Cyanobacterium) (Kaya, K. (1169) 39)

Sulfonic acid polymer
HIV-1; HIV-2; Inhibition; Reverse transcriptase (Tan, G.T. (1181) 183)

Sulfonylurea
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Sulfotransferase
Aryl sulfotransferase; Oxime; Sulfation; Substituent effect (Mangold, J.B. (1163) 217)

cDNA cloning; (Mouse liver) (Kong, A.-N.T. (1171) 315)

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Supercoiling
DNA binding; Histone-like protein; Nucleoid; (*B. subtilis*) (Le Hégarat, F. (1172) 101)

Supercomplex
Energy-transducing system; Membrane protein assembly; Reaction center; Cytochrome *b/f*; Cytochrome *b/c* (Joliot, P. (1141) 151)

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Actin filament; Motile system; Muscle contraction (Tanaka, Y. (1159) 94)

Superior cervical ganglion
cyclic AMP; Calcium ion, intracellular; Caffeine; Neuronal death; Nerve growth factor, NGF (Tanaka, S. (1175) 114)

Superoxide
Superoxide dismutase; Spectrophotometry; Kinetic analysis (Bolann, B.J. (1156) 27)

Phospholipase A_2; Arachidonic acid; 1,3-Dioctanoylglycerol; 1,2-Dioctanoylglycerol; Prostaglandin B_1 oligomer; (Human neutrophil) (Rosenthal, M.D. (1177) 79)

NADPH oxidase; Cell-free system; (Pig neutrophil) (Yu, L. (1178) 73)

Superoxide anion
Unilamellar vescile; Phase transition temperature; Permeation; Bilayer (Gomes, L.F. (1152) 78)

fMLP; Adenosine; Adherence; Signal transduction; G protein (Burkey, T.H. (1175) 312)

Superoxide anion generation
Protein kinase C; β-Isotype; nPKC; Pseudosubstrate; Calcium; p47-phox; Neutrophil (Majumdar, S. (1176) 276)

Superoxide anion radical
Creatine kinase; Sulfhydryl group; Free radical; Hydrogen peroxide; (Rat heart mitochondrion) (Yuan, G. (1140) 78)

Atherosclerosis; Lipid peroxidation; 3-Morpholinosydnonimine hydrochloride; Nitric oxide radical; LDL (Jessup, W. (1180) 73)

Superoxide dismutase
Superoxide; Spectrophotometry; Kinetic analysis (Bolann, B.J. (1156) 27)

Liver; Neonate rat; Copper (Yang, F.L. (1156) 232)

NAD(P)H : quinone reductase; DT-Diaphorase; Antioxidant enzyme; Catalase; Glutathione reductase; Oxygen toxicity; Lung (Whitney, P.L. (1156) 275)

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Two-cell block; $p34^{cdc2}$; Cell cycle; Thioredoxin; Oxidative stress; (Mouse embryo) (Natsuyama, S. (1176) 90)

Cobalt; Glutathione peroxidase; α-Tocopherol (Hatori, N. (1181) 257)

Superoxide radical
Carnosine; Hydroxyl radical; Pulse radiolysis (Pavlov, A.R. (1157) 304)

Cytochrome *P*-450 reductase; Reduction; Reduction rate; Cytochrome *c*; Electron reduction potential (Butler, J. (1161) 73)

Supported bilayer
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Suramin
Calcium; Fura-2; Nucleotide; ATP; Puriceptor; (Renal proximal cultured cell) (Cejka, J.-C. (1176) 7)

Surface accessibility
Monoclonal antibody; Stefin B; Cysteine proteinase inhibitor; Epitope determination (Kopitar-Jerala, N. (1164) 75)

Surface activity
Lung surfactant; Phospholipid-binding protein; Annexin (Tsao, F.H.C. (1166) 39)

Surface charge
NMR, ^{2}H-; Phosphatidylcholine; Lipid lateral distribution (Marassi, F.M. (1146) 219)

Dielectrophoresis; Cell surface; Membrane conductivity; (Friend erythroleukemia cell) (Gascoyne, P.R.C. (1149) 119)

Surface film
Phospholipid; Monolayer; Adsorption; Compression; Squeeze-out; Stability; Surface tension (Yu, S.-H. (1167) 264)

Surface pH
Doxorubicin; *N*-Hydroxysuccinimide ester; Serum albumin; Fatty acid sensor (Demant, E.J.F. (1156) 151)

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Surface polarization
Electrical conductivity; Lymphocyte; Fractal model; Membrane surface roughness; Conductometric property; (Human) (Bordi, F. (1153) 77)

Surface potential
Membrane potential; Cation transport kinetics; Cotransport (Borst-Pauwels, G.W.F.H. (1145) 15)

Surface pressure
Abscisic acid; Lipid monolayer; Liquid-expanded state; Liquid-condensed state; Phase transition (Bürner, H. (1150) 165)

Surface property
Saturated phosphatidylcholine; Phosphatidylcholine; Cholesterol; Lipid bilayer; Gel state; Merocyanine 540; Visible absorption spectrum; Fluorescence band (Bernik, D.L. (1146) 169)

Surface tension
Phospholipid; Monolayer; Surface film; Adsorption; Compression; Squeeze-out; Stability (Yu, S.-H. (1167) 264)

Surfactant
Lung; Inactivation; Inhibition; Phospholipid; Pulmonary (Amirkhanian, J.D. (1165) 321)

Fibroblast pneumonocyte factor; Transforming growth factor β; Fetal lung; Cell-cell communication (Nielsen, H.C. (1175) 95)

Amnion cell; Prostaglandin synthesis; (Human) (Newman, G.E. (1176) 106)

Surfactant-associated protein
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Surfactant binding
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Surfactant protein A
Collagenase resistant fragment; Intrinsic fluorescence; Calcium ion binding (Sohma, H. (1159) 150)

Surfactant synthesis
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Cholinephosphate cytidylyltransferase; Human fetal lung; Glucocorticoid; cAMP; T_3 (Sharma, A. (1170) 237)

Surrounding proton
Photosynthesis; ENDOR; Photosystem II; Tyrosine D^+; Delocalized spin model (Mino, H. (1144) 426)

Swelling
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Sympathomimetics
Endothelial cell; Permeability regulation; β-Adrenoceptor subtype; Catecholamine (Zink, S. (1178) 286)

Symport
Insect; Lepidoptera; Amino acid transport; Potassium; Cotransport; Cation dependence (Hennigan, B.B. (1148) 209)

Synaptic membrane
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Synaptoneurosome
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Synaptosome
ATPase, ecto-; Purine nucleotide; Ectonucleotidase; Nucleotidase; (Bovine brain) (Hohmann, J. (1152) 146)

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Syncytial epithelium
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Syncytium formation
HIV; Infection; Maleylated albumin; Receptor (Takami, M. (1180) 180)

Synergistic activation
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Synovial fibroblast
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Synthesis
Purine metabolism; Purine; *Artemia* development (Rotllan, P. (1156) 128)

Synthesis regulation
Flavodoxin; Enzyme property; Electron transfer; Cyanobacterium; (*A. sphaerica*) (Yakunin, A.F. (1164) 305)

Synthetic boundary cell
Flotation coefficient; Ultracentrifuge; Lipoprotein; (Human serum) (Okajima, Y. (1169) 103)

Synthetic DNA duplex
DNA–protein interaction; Restriction endonuclease (Degtyarev, S.K. (1172) 89)

Synthetic gene
Phospholipase A_2; Prokaryotic expression; Kallikrein; Refolding; Antigen/allergen (Dudler, T. (1165) 201)

Synthetic hemin
Myoglobin; Protein reconstitution; Heme orientation; Circular dichroism; (Horse heart) (Santucci, R. (1164) 133)

Synthetic oligosaccharides
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Synthetic peptide
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60S ribosomal protein kinase; Acidic ribosomal protein; Kinetics; (Yeast) (Grankowski, N. (1158) 194)

Collagen; Collagenase; Collagen-related synthetic peptide; Fibrinogen; Thrombin (Maruyama, S. (1164) 215)

Serum inactivation; RDS; Inactivation reversal; Pulsatile bubble surfactometer; Calcium; Infant serum (Amirkhanian, J.D. (1168) 315)

Apolipoprotein; Amphipathic helix; Lipid–protein interaction; Secondary structure; Computer modelling (Brasseur, R. (1170) 1)

Apolipoprotein; Phospholipid; Lipid–protein interaction; Discoidal complex (Corijn, J. (1170) 8)

Systemic lupus erythematosus
Long chain fatty acid; T cell; Rheumatoid arthritis; (Mouse) (Ando, S. (1181) 141)

T

T cell
Immunoglobulin superfamily; Interleukin 1 receptor; Cell proliferation; Cytokine; Cell cycle; (Human) (Tominaga, S.-i. (1171) 215)

Translation; Phosphorylation; Mitogen; eIF-2α; eIF-4α (Boal, T.R. (1176) 257)

Long chain fatty acid; Rheumatoid arthritis; Systemic lupus erythematosus; (Mouse) (Ando, S. (1181) 141)

3T3 cell
Benzpyrene; Microcalorimetry; Microcarrier; pH, intracellular; Sodium ion antiporter (Gebreselassie, D. (1143) 211)

T_3
Surfactant synthesis; Cholinephosphate cytidylyltransferase; Human fetal lung; Glucocorticoid; cAMP (Sharma, A. (1170) 237)

T_3 sulfate
HepG2; Homogenate; (Rat); (Human liver) (Van Stralen, P.G.J. (1157) 114)

T4
Calcium ion binding; EF-hand motif; Site-directed mutagenesis; T4 lysozyme (Leontiev, V.V. (1162) 84)

T4 lysozyme
Calcium ion binding; EF-hand motif; Site-directed mutagenesis; T4 (Leontiev, V.V. (1162) 84)

Tachyplesin I
Polyphemusin II; NMR, ^{1}H-; anti-HIV peptide; Distance geometry; (XPLOR) (Tamamura, H. (1163) 209)

Tamoxifen
Anti-cancer drug; Breast cancer; Membrane–lipid interaction; Membrane fluidity; Fluorescent probe (Custódio, J.B.A. (1150) 123)

Ergosterol; Antiyeast; Anticancer; Membrane antioxidant; Tamoxifen enhancement coefficient; Lipid peroxidation (Wiseman, H. (1181) 201)

Tamoxifen enhancement coefficient
Tamoxifen; Ergosterol; Antiyeast; Anticancer; Membrane antioxidant; Lipid peroxidation (Wiseman, H. (1181) 201)

Tandem mass spectrometry
Parvalbumin; Calcium; Electrospray (Hauer, C.R. (1160) 1)

Tangier disease
HDL; Plasma lipoprotein; Cholesterol transport; Apolipoprotein (Duchateau, P. (1182) 30)

Tannin
Poly(ADP-ribose) glycohydrolase; Poly(ADP-ribosyl)ation; Enzyme inhibition; Ellagitannin; Structure–activity relationship (Aoki, K. (1158) 251)

Target analysis
Global analysis; Picosecond fluorescence; Fluorescence decay; Thermodynamics; Phytochrome; Phototransformation (Holzwarth, A.R. (1140) 59)

Target (compartmental) analysis
Energy transfer kinetics; Bacterial photosynthesis; Purple bacterium; Picosecond fluorescence; Model calculation; Free energy; (*Rb. capsulatus*) (Müller, M.G. (1142) 49)

Targeting
Liposome; Ligand; Photon correlation spectroscopy; Freeze-fracture; Electron microscopy (Gregoriadis, G. (1147) 185)

Bacterium; Bactericide; Proteoliposome; Concanavalin A; Triclosan; (*S. sanguis*); (*S. mutans*) (Jones, M.N. (1147) 251)

Targeting presequence
Mitochondrion; Cytochrome-*c* reductase; Cytochrome c_1; cDNA; (*C. fasciculata*); (*B. caudatus*) (Priest, J.W. (1144) 229)

Target size
Leukotriene D_4; Leukotriene D_4 receptor; THP-1 cell line; Radioreceptor binding; Radiation inactivation; *N*-Glycosylation (Rochette, C. (1177) 283)

Taste perireceptor event
VEG protein; cDNA sequence; Lipocalin superfamily; Salivary gland; (Human) (Bläker, M. (1172) 131)

Tau protein
Alzheimer's disease; Neurofibrillary tangle; PHF-tau (A68); Microtubule-associated protein tau; Phosphorylation (Brion, J.-P. (1160) 134)

Taurine
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Taurine transporter
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Tautomerism
2-Thiocytosine; 5-Fluoro-2-thiocytosine; Matrix isolation; Infrared spectrum; Ab initio calculation (Rostkowska, H. (1172) 239)

Ab initio calculation; N^4-Hydroxycytosine; Nucleic acid base analog; Basepairing; Thymidylate synthase; Hydroxylamine mutagenesis (Leś, A. (1173) 39)

Technetium
Liposome; Poly(ethylene glycol); Circulation half-life; Indium (Tilcock, C. (1148) 77)

Technetium-99*m*
Laminin; Peptide; Melanoma; Emphyesema; Biodistribution (Zamora, P.O. (1182) 197)

Telomere
Telomere-binding protein; (*Physarum*) (Coren, J.S. (1171) 162)

Telomere-binding protein
Telomere; (*Physarum*) (Coren, J.S. (1171) 162)

Temperature
Water; Pulmonary; Membrane; Transport (Garrick, R.A. (1148) 108)

Cell wall turnover; Growth; (Bacillus subtilis) (Wu, T.-L. (1156) 173)

Temperature adaptation
Bilayer order; Fluorescence anisotropy; DPH; *trans*-Parinaric acid; Time-resolved fluorescence; (Vertebrate brain membrane) (Behan-Martin, M.K. (1151) 216)

Temperature effect
Sodium ion/D-glucose cotransport; D-Glucose transport; Intestinal development; Brush-border membrane vesicle; Kinetics; (Guinea pig) (Malo, C. (1153) 299)

Hemoglobin; EPR; Absorbance; Allosteric effector; (*C. caretta*); (Sea turtle) (Giardina, B. (1159) 129)

Temperature jump
Cryptand; Nonactin; Mobile carrier, ionizable and neutral; Alkali cation transport kinetics; Transport kinetics; Membrane structure (Vareille, G. (1146) 25)

Potential-sensitive styryl dye; Styryl dye; Lipid vesicle; Binding affinity; Fluorescence lifetime; Phase transition; Quantum yield (Zouni, A. (1153) 203)

RNAase T_1; Relaxation kinetics; Conformational change; Isomerization; Nucleotide binding (Walz, Jr., F.G. (1159) 327)

Equilibration kinetics; Hemocyanin; Hemocyanin subunit; Stopped-flow technique (Andrew, C.R. (1162) 105)

Template interaction
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Teratocarcinoma
Retinoic acid; Protein kinase C; Retinoic acid receptor; Teratocarcinoma differentiation; (Human) (Kurie, J.M. (1179) 203)

Teratocarcinoma differentiation
Retinoic acid; Protein kinase C; Retinoic acid receptor; Teratocarcinoma; (Human) (Kurie, J.M. (1179) 203)

Terminal oxidase
Oxidase; Cytochrome *a*; Cytochrome *o*; Alkalotolerant bacterium; (*Bacillus FTU*) (Muntyan, M.S. (1143) 142)

Terpene alcohol dehydrogenase
5-*exo*-Hydroxycamphor dehydrogenase; *camD*; Zinc-containing alcohol dehydrogenase; Nucleotide sequence; (*P. putida*) (Aramaki, H. (1174) 91)

Tertiary conformation
Sulfhydryl group; Hemoglobin; Ionizable group; Kinetics (Okonjo, K.O. (1159) 303)

Tertiary conformational alteration
Inositol hexakisphosphate; Ligand binding; Ferrous hemoglobin derivative; Kinetics; Thermodynamics (Coletta, M. (1162) 309)

Testosterone
Cytochrome *P*-450; (Rat liver) (Célier, C. (1156) 15)

Polyamine; Renal hypertrophy; Renal hyperplasia; Antifolate CB 3717; α-Difluoromethylornithine (Manteuffel-Cymborowska, M. (1182) 133)

Tetanic contraction
Branched-chain 2-oxo acid dehyrogenase complex; Branched-chain amino acid; Branched-chain 2-oxo acid; Lactate; Muscle (Shimomura, Y. (1157) 290)

Tetraethylammonium
Renal transport; Organic cation; Ischemic injury; Reperfusion; Brush-border membrane (Maeda, S. (1150) 103)

Brown adipose tissue; Potassium ion channel; Potassium ion conductance; Delayed rectifier; Ion channel selectivity; (Rat) (Ruß, U. (1153) 249)

Tetraheme cytochrome
Electron transfer; Cytochrome c_2; Reaction center; bc_1 complex; (*Rps. viridis*) (Garcia, D. (1144) 295)

Tetrahexyl ammonium ion
Inositol 1,4,5-trisphosphate; Calcium release; Microsome; Inhibition; (Porcine cerebellum) (Sayers, L.G. (1152) 177)

Tetrahydrobiopterin
GTP cyclohydrolase I; Northern blot; Polymerase chain reaction (Gütlich, M. (1171) 133)

(−)-Δ^8-Tetrahydrocannabinol
Neutron diffraction; Drug–membrane interaction; Membrane multilayer (Martel, P. (1151) 51)

Tetranitromethane
Nitrotyrosine; Aminotyrosine; Nitrotyrosyl ribonuclease A; Nitrotyrosyl lysozyme; NMR, ^{15}N- (Skawinski, W.J. (1162) 297)

Tetraphenylboron
Dye uptake; 2-(4-Dimethylaminostyryl)-1-ethylpyridinium cation; Phospholipid vesicle; Transmembrane potential (Sedgwick, E.G. (1146) 113)

Tetraphenylphosphonium
Large unilamellar vesicle; Membrane potential; NMR, ^{2}H-; Headgroup order; Phosphatidylcholine (Leenhouts, J.M. (1153) 257)

Textilotoxin
Subunit; Amino acid sequence; Neurotoxin; Phospholipase A_2; (*P. textilis*) (Pearson, J.A. (1161) 223)

TGF-β
Glucose transport; Glucose transporter; Glycosylation; Transforming growth factor-β; (Mouse fibroblast 3T3) (Masumi, A. (1145) 227)

β-Thalassemia
Beta-mutation *in cis*; Beta-mutation *in trans*; HPLC; DNA sequence (Divoky, V. (1180) 173)

Thermal denaturation
Heparin; Antithrombin; Binding; Thermodynamics; Calorimetry (DeLauder, S. (1159) 141)

Adenylate kinase; Protein unfolding; Protein refolding; Inactivation; Reactivation (Zhang, Y.-L. (1164) 61)

Thermal induction
Delayed luminescence; Photosystem (Kaurov, Y.N. (1143) 97)

Thermal stability
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Langmuir-Blodgett film; Reaction center; CD; Protein secondary structure (Nicolini, C. (1158) 273)

Thermodynamical study
Dimyristoylphosphatidylcholine; Sonicated vesicle; Microcalorimetry; Negative stain electron microscopy (Kodama, M. (1169) 90)

Thermodynamic model
Free energy change; Inorganic pyrophosphate; Pyrophosphate; ATP; Metabolism (Davies, J.M. (1141) 29)

Thermodynamics
Global analysis; Target analysis; Picosecond fluorescence; Fluorescence decay; Phytochrome; Phototransformation (Holzwarth, A.R. (1140) 59)

Heparin; Antithrombin; Binding; Calorimetry; Thermal denaturation (DeLauder, S. (1159) 141)

Bovine α-chymotrypsin; Methionine oxidation; Catalytic property; Inhibitor binding; Enzyme kinetics (Cutruzzolà, F. (1161) 201)

DSC; Irreversible denaturation; EPSP synthase (Merabet, E.K. (1161) 272)

Inositol hexakisphosphate; Ligand binding; Ferrous hemoglobin derivative; Kinetics; Tertiary conformational alteration (Coletta, M. (1162) 309)

Thermodynamic stability
Phosphatidic acid; Unilamellar vesicle; pH gradient (Lin, B.Z. (1147) 237)

Phosphatidylcholine; Unilamellar vesicle; Osmotic sensitivity; Salt gradient (Lerebours, B. (1152) 49)

Dimyristoylphosphatidylglycerol; Negative stain electron microscopy; Microcalorimetry; Crystalline cylindrical structure (Kodama, M. (1168) 243)

Thermoluminescence
Oxygen evolution; Herbicide resistance; D1 protein; Photosynthesis; (*Synechococcus* PCC7942) (Gleiter, H.M. (1140) 135)

Photosynthesis; Chlorophyll; Photosystem (Noguchi, T. (1141) 18)

Photosystem II; Photosynthesis; Water splitting system; Chlorophyll-binding protein; Thylakoid membrane (Carpenter, S.D. (1144) 204)

Calcium depletion; High energy quenching; Photosystem II; Primary quinone acceptor; Redox shift (Krieger, A. (1144) 411)

Thermolysin
Pro-urokinase; Urokinase; Plasminogen activator (Marcotte, P.A. (1161) 105)

Thermophile
Protein purification; *S*-Adenosylhomocysteine hydrolase; Immunology; Secondary structure; (*S. solfataricus*) (Porcelli, M. (1164) 179)

NADH oxidase; Gene sequence; Nucleotide sequence; (*Th. brockii*) (Liu, X.-L. (1174) 187)

Thermophilic
Reaction center; Reconstitution; Protonmotive force; (*Chloroflexus aurantiacus*); (*Clostridium fervidus*) (Speelmans, G. (1142) 269)

Thermophilic bacterium
Thermostability; β-Glucosidase; β-Xylosidase; (*Thermotoga* sp.) (Ruttersmith, L.D. (1156) 167)

Thermosensitive liposome
Liposome; Long-circulating liposome; Ganglioside GM1; Drug delivery system; Hyperthermia; Doxorubicin; Colon 26 carcinoma (Maruyama, K. (1149) 209)

Thermostability
β-Glucosidase; β-Xylosidase; Thermophilic bacterium; (*Thermotoga* sp.) (Ruttersmith, L.D. (1156) 167)

Aspartate aminotransferase; Archaebacterium; Hyperthermophilia; Expression; Protein purification; (*S. solfataricus*); (*E. coli*) (Arnone, M.I. (1160) 206)

myo-Inositol monophosphatase; Secondary structure prediction; Circular dichroism; Raman spectroscopy; Fluorescence (Ganzhorn, A.J. (1161) 303)

aEF-1α; EF-Tu; Archaebacterium; Urea denaturation (Masullo, M. (1162) 35)

Thermotolerant cell
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Thermotropic behavior
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Thia fatty acid
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3-Thia fatty acid
Peroxisome proliferator; Fatty acid oxidation; Hypolipidemia; (Rat Liver) (Asiedu, D.K. (1166) 73)

Acylcarnitine; Acyl-CoA; Carnitine palmitoyltransferase I; Malonyl-CoA; Mitochondrial β-oxidation; Beta oxidation (Skrede, S. (1167) 189)

Palmitoyl-CoA synthetase; Hepatoma cell; Isolated hepatocyte; Dexamethasone; Insulin; (Rat) (Wu, P. (1170) 118)

Thiamin binding protein
Ligand-protein interaction; Binding site; Binding mechanism (Rąpała-Kozik, M. (1159) 209)

Thiamin diphosphate
Thiamin pyrophosphokinase; Thiamin triphosphate; Cytosolic adenylate kinase; Erythrocyte; (Human) (Egi, Y. (1160) 171)

Thiamin pyrophosphokinase
Thiamin diphosphate; Thiamin triphosphate; Cytosolic adenylate kinase; Erythrocyte; (Human) (Egi, Y. (1160) 171)

Thiamin triphosphate
Thiamin diphosphate; Thiamin pyrophosphokinase; Cytosolic adenylate kinase; Erythrocyte; (Human) (Egi, Y. (1160) 171)

Cytosolic adenylate kinase; Enzyme kinetics; Single base substitution (Shioda, T. (1161) 230)

Thin-layer chromatography
Diphytanylglycerol diether analog; Phosphatidylglycerophosphate; Phosphatidylglycerophosphate methyl ester; NMR; FABMS; (*H. salinarium*); (*H. cutirubrum*) (Kates, M. (1169) 46)

Thiocyanate ion
Membrane potential; Voltage clamp technique; Gastric mucosa; Cimetidine; SCH 28080; (*R. pipiens*) (Carrasquer, G. (1149) 195)

Lactoperoxidase; NMR, C-13 (Pollock, J.R. (1159) 279)

2-Thiocytosine
5-Fluoro-2-thiocytosine; Tautomerism; Matrix isolation; Infrared spectrum; Ab initio calculation (Rostkowska, H. (1172) 239)

Thioglycollate
Macrophage plasminogen activator; Plasminogen activator inhibitor; Zymography; Lipopolysaccharide; Dexamethasone; (Mouse) (Kung, S.K.P. (1176) 113)

Thiol
Hemoglobin; Oxidation; Gold thiol; Zinc; Copper (Potuznik, S. (1164) 289)

Thiol ester mutation
α-Macroglobulin; Egg-white protein; Sequence analysis (Nielsen, K.L. (1162) 230)

Thiol group
Restriction endonuclease *Cfr*9I; Chemical modification (Siksnys, V. (1160) 199)

Thiol modification
Carnitine carrier; Reconstitution; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (1140) 53)

Mitochondrion; Phosphate carrier; Reconstitution; Transmembrane orientation; Membrane permeability (Stappen, R. (1149) 40)

Thiol oxidation
HMG-CoA reductase; Hydrogen peroxide inactivation; Hydroxyl radical (Omkumar, R.V. (1156) 267)

Thionin
Negative regulatory element; Promoter analysis; Tissue specificity (Fernández, J.A. (1172) 346)

Thiopropyl-Sepharose 6B
Thymidylate synthase; Covalent chromatography (Bradshaw, T.P. (1163) 165)

Thioredoxin
Protein folding; Selective deuteration; NMR, ^{1}H-; Amino acid (Wishart, D.S. (1164) 36)

Two-cell block; $p34^{cdc2}$; Cell cycle; Superoxide dismutase; Oxidative stress; (Mouse embryo) (Natsuyama, S. (1176) 90)

THP-1 cell
Arachidonic acid; Icosapentaenoic acid; Phosphatidylcholine; FABMS; (Human monocyte) (Galella, G. (1169) 280)

THP-1 cell line
Leukotriene D_4; Leukotriene D_4 receptor; Radioreceptor binding; Radiation inactivation; Target size; *N*-Glycosylation (Rochette, C. (1177) 283)

L-Threonine aldolase
Threonine metabolism; L-Threonine dehydrogenase; 2-Amino-3-ketobutyrate ligase; Glycine (Marcus, J.P. (1164) 299)

L-Threonine dehydrogenase
Threonine metabolism; 2-Amino-3-ketobutyrate ligase; L-Threonine aldolase; Glycine (Marcus, J.P. (1164) 299)

Threonine metabolism
L-Threonine dehydrogenase; 2-Amino-3-ketobutyrate ligase; L-Threonine aldolase; Glycine (Marcus, J.P. (1164) 299)

Thrombin
Membrane vesiculation; Aminophospholipid translocase; Bilayer balance model; Platelet activation; Phospholipid (Brunauer, L.S. (1152) 109)

Collagen; Collagenase; Collagen-related synthetic peptide; Fibrinogen; Synthetic peptide (Maruyama, S. (1164) 215)

Calpain I; ATP; Platelet (Ishii, H. (1175) 37)

Platelet; Cytosolic calcium; Copper deficiency; Fura-2; (Rat) (Johnson, W.T. (1175) 263)

Platelet; Sodium; Sodium ion–proton exchange; Epinephrine; Hypertension (Stamouli, V. (1176) 215)

Thrombin activation
Sodium–hydrogen ion exchange; Lithium–hydrogen ion exchange; Amiloride derivative; Intracellular pH; (Platelet) (Gende, O.A. (1152) 219)

Thrombolytic therapy
Staphylokinase; X-ray scattering small-angle; Solution structure; Dynamic light scattering; Protein conformation (Damaschun, G. (1161) 244)

Thrombomodulin
Nucleic acid sequence; Gene structure; Promoter region; F9 cell; (Mouse) (Niforas, P. (1173) 179)

Thrombospondin
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Thromboxane A_2
Platelet; Polyclonal antibody; Phospholipase (Hashimoto, K. (1165) 27)

TXA_2/PGH_2 receptor; Glomerular function; Receptor binding; Nephrotic syndrome; (Kidney) (Mayeux, P.R. (1181) 148)

Thylakoid
Proton gradient; pH gradient; Fluorescent dye; Energy coupling (Renganathan, M. (1142) 277)

Light-harvesting; Photosynthesis; Chloroplast; (Chlorophyta); (*M. squamata*) (Rhiel, E. (1143) 163)

Antifreeze protein; Antifreeze glycoprotein; Cryotoxicity; Freeze-thaw damage; Plastocyanin; (Spinach) (Hincha, D.K. (1146) 258)

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Thylakoid, isolated
Photoacoustic spectroscopy; Cyclic electron transport; Photosystem II; Photoinhibition (Lapointe, L. (1142) 43)

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Antenna size; Photosystem I heterogeneity; Light harvesting complex II; Aqueous two-phase partitioning; (Spinach chloroplasts) (Andreasson, E. (1141) 175)

Heat stability; Electron transport; Glycinebetaine; Fatty acid; (*Synechocystis* PCC6803) (Mamedov, M. (1142) 1)

Chlorophyll fluorescence; pH gradient; Photosynthesis; Photosystem II; Light harvesting complex (Horton, P. (1142) 203)

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Photosystem II; Photosynthesis; Water splitting system; Chlorophyll-binding protein; Thermoluminescence (Carpenter, S.D. (1144) 204)

Thymidylate synthase
Thiopropyl-Sepharose 6B; Covalent chromatography (Bradshaw, T.P. (1163) 165)

Ab initio calculation; Tautomerism; N^4-Hydroxycytosine; Nucleic acid base analog; Basepairing; Hydroxylamine mutagenesis (Leś, A. (1173) 39)

Thymocyte
Poly(ADP-ribosyl)transferase; Cell cycle; Enzyme expression; (Rat) (Wein, K.-H. (1176) 69)

Thymosin β_4
Actin-binding peptide; Cell cycle; Proliferation; Human leukemia; Hepatectomy (Otero, A. (1176) 59)

Thyroid hormone
Short-term action; Long-term action; Mitochondrion; Energy transfer (Soboll, S. (1144) 1)

Skeletal muscle; ATPase, Ca^{2+}-; Milrinone; (Rabbit) (Warnick, P.R. (1153) 184)

Adipose differentiation; Hypolipidemic fibrate; Ob 17 preadipocyte (Gharbi-Chihi, J. (1177) 8)

Thyroid hormone responsive element
c-*erbA*; Phospho*enol*pyruvate carboxykinase; TRAP; Transcriptional control (Schmidt, E.D.L. (1172) 82)

Thyrotropin-releasing hormone
Dephosphorylation pathway; Inositol phosphate; (Tumor cell); (Rat) (Ruiz-Larrea, F. (1178) 63)

Tibial dyschondroplasia
Hypertrophic cartilage; Collagen; Crosslinking; (Chicken) (Orth, M.W. (1157) 229)

Tight binding
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Fluoride; Magnesium; Inhibition (Kubota, T. (1163) 131)

Tight junction
Polycation; Epithelial permeability (McEwan, G.T.A. (1148) 51)

Time-gated imaging
Fluorescence imaging; Photomovement; Photoreception; (*B. japonicum*) (Cubeddu, R. (1143) 327)

Time-resolved fluorescence
Blepharismin; Light signal transduction; Photophobic response; Photoreceptor; Photoreaction; (*B. japonicum*) (Yamazaki, T. (1143) 319)

Temperature adaptation; Bilayer order; Fluorescence anisotropy; DPH; *trans*-Parinaric acid; (Vertebrate brain membrane) (Behan-Martin, M.K. (1151) 216)

Time-resolved phosphorescence anisotropy
Rotational diffusion; Erythrocyte membrane; Band 3; Ovalocyte; Erythrocyte morphology (Tilley, L. (1181) 83)

Time resolved spectroscopy
Reaction center; Femtosecond spectroscopy; Antenna deficient mutant; (*Rb. capsulatus*) (Schmidt, S. (1144) 385)

TIMP
AP-1; c-*fos*; c-*jun*; c-*ets*; PEA3; Transcriptional regulation (Edwards, D.R. (1171) 41)

TIMP-1
Bone resorption; Metalloproteinase; Enzyme inhibition; TIMP-2; (Osteoclast) (Hill, P.A. (1177) 71)

TIMP-2
Bone resorption; Metalloproteinase; Enzyme inhibition; TIMP-1; (Osteoclast) (Hill, P.A. (1177) 71)

Ti plasmid
Gene characterization; Nopaline catabolism; (*Agrobacterium tumefaciens*) (Schrell, A. (1174) 303)

Tissue distribution
G protein; cDNA cloning; (Guinea pig) (Sakanaka, C. (1175) 61)

Tissue inhibitor
Proteinase inhibitor; Metalloproteinase; Peptide mapping; Proteolysis (Williamson, R.A. (1164) 8)

Tissue plasminogen activator
Plasminogen activator, urokinase type; Polarity; (FRT cell); (MDCK cell); (CaCo-2 cell) (Canipari, R. (1175) 1)

Tissue-specific expression
Mitochondrion; Promoter; MyoD1; Respiration; Transcription regulation (Smith, E.O. (1174) 63)

Tissue specificity
Cytochrome *P*-450; Development; (Kidney); (Liver) (Marie, S. (1172) 124)

Negative regulatory element; Promoter analysis; Thionin (Fernández, J.A. (1172) 346)

Glutathione peroxidase; Gene expression; Transcription; Selenoenzyme; (Guinea pig) (Himeno, S. (1173) 283)

Bone morphogenetic protein 4; Nucleotide sequence; cDNA (Chen, D. (1174) 289)

Tissue-specific regulation
Human elastin gene; Transcription; CAT assay; Transforming growth factor β (Marigo, V. (1172) 31)

Tissue-type plasminogen activator
Plasminogen; Plasminogen activator; Plasminogen activator inhibitor-1; Urokinase; Reversible binding (Mimuro, J. (1160) 325)

Plasminogen activator; Protein characterization; Electron microscopy; Molecular weight (Margossian, S.S. (1163) 250)

T lymphocyte
Liposome; Hemagglutinating virus of Japan (HVJ); Gene transfer, in vivo; Hepatitis B virus; Cytotoxicity (Kato, K. (1182) 283)

TMA-DPH
Calcium; Exocytosis; Fluorescent membrane probe; Platelet activation; Transbilayer movement (Heemskerk, J.W.M. (1147) 194)

Plasma membrane; Microheterogeneity; DPH; Fluorescence; Frequency domain fluorometry; (Rat liver hepatocyte) (Ferretti, G. (1147) 245)

Tocopherol
Protein kinase C; Tocotrienol; Cell proliferation; Antioxidant; (Smooth-muscle cell) (Chatelain, E. (1176) 83)

α-Tocopherol
Androgen; Estrogen; (Rat) (Feingold, I.B. (1176) 192)

Cobalt; Superoxide dismutase; Glutathione peroxidase (Hatori, N. (1181) 257)

α-Tocopherol quinone
Linear dichroism; Plastoquinone; Langmuir-Blodgett film (Kruk, J. (1142) 6)

Tocotrienol
Protein kinase C; Tocopherol; Cell proliferation; Antioxidant; (Smooth-muscle cell) (Chatelain, E. (1176) 83)

Toluidine blue
Transport; Photodynamic treatment; Yeast; (*K. marxianus*) (Paardekooper, M. (1151) 143)

Tonoplast
Dicarboxylate transport; Malate; Protein modification; Vacuole; (*Kalanchoë*) (Bettey, M. (1152) 270)

Phospholipid; Sterol; Lipid composition; Glycosylated sterol; Phospholipase A_2; (*Acer pseudoplatanus*) (Tavernier, E. (1167) 242)

Topa
Dopa; Tyrosinase; Melanin; Melanin biosynthesis; Melanogenesis (Rodríguez-López, J.N. (1160) 221)

Topa quinone
Cyclic voltammetry; Redox potential; Acid-dissociation constant; Redox catalysis; Electronic structure (Kano, K. (1157) 324)

Top-down metabolic control analysis
3-Hydroxy-3-methylglutaryl-CoA; Ketogenesis; Carbon flux; (Rat liver mitochondrion) (Quant, P.A. (1156) 135)

Topography
Dolichol pathway; Lipid, GlcNAc; Proteolysis; Microsome; *N*-Acetylglucosaminyltransferase (Kean, E.L. (1168) 321)

Topoisomerase
DNA binding protein; Genetic recombination; DNA enzymology; DNA–protein interaction (Myers, R. (1174) 31)

Topoisomerase activity
DNA binding; Circular dichroism; Lexitropsin; Inhibition (Burckhardt, G. (1173) 266)

Topoisomerase I
Camptothecin; β-Lapachone; L5178Y subline (Kowalska-Loth, B. (1172) 117)

DNA relaxation; Histone H1; (*U. maydis*) (Thiyagarajan, M.M. (1173) 155)

Topoisomerase II
Sequence comparison; PCR; (HeLa cell) (Austin, C.A. (1172) 283)

Topoisomerase inhibitor
Apoptosis; Programmed cell death; (Mouse thymocyte) (Onishi, Y. (1175) 147)

Topology
ATPase, H^+/K^+-; Gastric acid secretion; Pantoprazole; Conformation (Shin, J.M. (1148) 223)

ATPase, H^+/K^+-; Acid secretion; Epitope; Baculovirus (Mercier, F. (1149) 151)

MDR; Multidrug resistance; Drug resistance; Mutagenesis; Membrane orientation; P-glycoprotein (Zhang, J.-T. (1153) 191)

Topotecan
DNA topoisomerase I; Mitochondrion; Platelet; Scleroderma; (Human) (Kosovsky, M.J. (1164) 101)

Total parenteral nutrition
Lipoprotein; Apoprotein; Catabolism; (Rat) (Hajri, T. (1166) 84)

Toxicity
Amphotericin B; Patch clamp; Potassium ion channel; (MDCK cell) (Hsu, S.-F. (1152) 189)

Lipid peroxide; (Mouse thymus); (Mouse lymphocyte) (Oarada, M. (1165) 135)

Toxicity, in vitro
Gliadin peptide; Coeliac disease; Peptide (Cornell, H.J. (1181) 169)

Toxin
Apamin; Biotin-avidin; NMR; Calcium-activated K^+ channel; Adrenergic receptor (Shahidi, S. (1157) 74)

Enzyme purification; Phospholipase A_2; Primary structure; (*Vipera berus berus*); (Snake venom) (Križaj, I. (1157) 81)

Protein conformation; Circular dichroism; δ-Endotoxin; (*B. thuringiensis*) (Venugopal, M.G. (1159) 185)

α-Toxin
Nicked toxin, naturally occurring; Assembly; Membrane channel; Multilamellar liposome; (*S. aureus*) (Tomita, T. (1145) 51)

Monoclonal antibody; Erythrocyte; Ion channel; Planar lipid bilayer membrane; (*Staphylococcus aureus*) (Krasilnikov, O.V. (1182) 94)

θ-Toxin
Cholesterol; Liposome; Perfringolysin O; Erythrocyte; Cytolysis; (*Cl. perfringens*) (Iwamoto, M. (1153) 89)

Toxin binding
Neurotoxin; Ganglioside; Protein acceptor; Solubilization; Synaptic membrane; (*C. botulinum*) (Nishiki, T.-i. (1158) 333)

TPA
Gene transfer; Protein kinase C (Reston, J.T. (1177) 49)

Tracheobronchial epithelium
hnRNP A1; cDNA cloning; Vitamin A; Gene expression (An, G. (1172) 292)

***trans*-acting factor**
ABF1; Gene sequence; Protein domain; (Yeast); (*K. marxianus*) (Oberyé, E.H.H. (1173) 233)

Transacylase
Membrane; Alkyllysoglycerophosphocholine; (Porcine aorta) (Jansen, G.J. (1145) 113)

Phospholipase A_2; Lysophospholipase; (Human cytosolic) (Reynolds, L.J. (1167) 272)

Transbilayer movement
Calcium; Exocytosis; Fluorescent membrane probe; Platelet activation; TMA-DPH (Heemskerk, J.W.M. (1147) 194)

Translocase; Lipid translocation; Spin label; (Erythrocyte) (Cribier, S. (1148) 85)

Transcobalamin
Transcobalamin II receptor; Cobalamin; Endocytosis; (Germ cell) (Boukhzer, E. (1175) 128)

Transcobalamin II
Cobalamin; Transport (Li, N. (1172) 21)

Transcobalamin II receptor
Transcobalamin; Cobalamin; Endocytosis; (Germ cell) (Boukhzer, E. (1175) 128)

Transcript
Origin; cDNA; Sequence; DNA replication; (Mammalian) (Wu, C. (1174) 241)

Origin; cDNA; DNA replication; Initiation zone; (Mammalian) (Wu, C. (1174) 258)

Transcription
Chronic ethanol; Pancreatic acini; Translation (Ponnappa, B.C. (1158) 113)

Lipoprotein lipase; Adipocyte; Cytokine; Hormone; cDNA; Genomic gene; Promoter (Enerbäck, S. (1169) 107)

Surfactant-associated protein; Glucocorticoid; mRNA stability; Lung development (Xu, J. (1169) 146)

Carcinogenesis; Polymerase chain reaction; Cytochrome *P*-450 (Traber, P.G. (1171) 167)

Cell cycle; Posttranscriptional regulation; Methylenetetrahydrofolate; Mitogen (Peri, K.G. (1171) 281)

Human elastin gene; CAT assay; Transforming growth factor β; Tissue-specific regulation (Marigo, V. (1172) 31)

Alu family; DNA replication (Saëgusa, Y. (1172) 274)

Glutathione peroxidase; Tissue specificity; Gene expression; Selenoenzyme; (Guinea pig) (Himeno, S. (1173) 283)

Cyanobacterium; CP-47; Photosystem II; (*Synechococcus*) (Kulkarni, R.D. (1173) 329)

Transcription activation
Nuclear matrix; Origin of replication; Bovine papilloma virus; Harvey murine sarcoma virus; Mouse mammary tumor virus (Adom, J.N. (1171) 187)

v-ets; ETS domain; (Neuroepiteloma cell) (Hromas, R. (1172) 155)

Transcriptional control
c-*erbA*; Thyroid hormone responsive element; Phospho*enol*pyruvate carboxykinase; TRAP (Schmidt, E.D.L. (1172) 82)

Transcriptional interaction
N-*ras*; Exon shipping; *unr* gene (Boussadia, O. (1172) 64)

Transcriptional regulation
TIMP; AP-1; c-*fos*; c-*jun*; c-*ets*; PEA3 (Edwards, D.R. (1171) 41)

Initiator; MDR1; Promoter; Glycoprotein, P- (Van Groenigen, M. (1172) 138)

Aluminum; Histone H1; Non-enzymatic glycation; Nucleotide binding; (Rat) (Tarkka, T. (1180) 294)

Transcription control
cyclic AMP-responsive element-binding protein; CREB; DNA binding; Gene transcription (Lee, K.A.W. (1174) 221)

Transcription factor
Octamer; POU domain; Homeodomain; Gene regulation; Development (Verrijzer, C.P. (1173) 1)

Homeobox gene; *hox-B5*; *hox-B6*; (*B. rerio*); (Zebrafish) (Molven, A. (1173) 102)

Transcription regulation
β_1-Adrenergic receptor gene; PCR sequencing (Collins, S. (1172) 171)

Mitochondrion; Tissue-specific expression; Promoter; MyoD1; Respiration (Smith, E.O. (1174) 63)

Transcription start site
N-Methyl-D-aspartate recepter 1 gene; Promoter; Housekeeping gene (Bai, G. (1152) 197)

Transducin
Rod outer segment membrane; Photoreceptor; cGMP phosphodiesterase; Site-directed mutagenesis (Lipkin, V.M. (1176) 250)

Transepithelial transport
Vinblastine; P-glycoprotein; Multidrug resistance; Cytotoxicity; (Kidney cell-line); (MDCK cell) (Hunter, J. (1179) 1)

Transfected cell
Alzheimer's disease; Amyloid protein precursor; Protein phosphorylation (Demaerschalck, I. (1181) 214)

Transfection
L-FABP; Phospholipid; Cholesterol; L cell; Fluorescence (Woodford, J.K. (1145) 257)

Prostaglandin E receptor; G protein; Ligand binding (Negishi, M. (1175) 343)

Transferase assay
Poly(ADP-ribose) synthetase; ADP-ribosyltransferase (Doi, S. (1162) 115)

Transfer protein
Phosphatidylserine; Phosphatidylethanolamine; Fluorescent phospholipid; Yeast; (*S. cerevisiae*) (Gaigg, B. (1146) 301)

Transferrin
cDNA sequence; Horse; Iron-binding protein; (*E. caballus*) (Carpenter, M.A. (1173) 230)

Transforming growth factor-β
Glucose transport; Glucose transporter; Glycosylation; TGF-β; (Mouse fibroblast 3T3) (Masumi, A. (1145) 227)

Transforming growth factor β
Human elastin gene; Transcription; CAT assay; Tissue-specific regulation (Marigo, V. (1172) 31)

Fibroblast pneumonocyte factor; Surfactant; Fetal lung; Cell-cell communication (Nielsen, H.C. (1175) 95)

Transglutaminase gene
Promoter region (Suto, N. (1172) 319)

Transhydrogenase
Divalent cation; Cation; NADP(H) binding site; Enzyme function; (Beef heart mitochondria) (Sazanov, L.A. (1144) 225)

Transient and stable expression
recombinant DNA; hGH DNAc; Differential splicing; Eukaryotic expression vector; Adipogenic activity (Rincón-Limas, D.E. (1172) 49)

Transient electric birefringence
Myosin subfragment 1; Tryptophan phosphorescence; Fluorescence anisotropy; Structural dynamics (Papp, S. (1159) 267)

Transient transfection
LCAT deficiency; Site-directed mutagenesis; Recombinant LCAT (Hill, J.S. (1181) 321)

Transition pathway
Myoglobin unfolding; Protein dynamics; Transition state (Konno, T. (1162) 93)

Transition state
Adenosine deaminase; Binding discrimination; Ligand binding (Grosshans, J. (1161) 28)

Myoglobin unfolding; Protein dynamics; Transition pathway (Konno, T. (1162) 93)

Transition state analog
Human deoxycytidylate deaminase; Allosteric regulation; Inhibition (Maley, G.F. (1162) 161)

Translation
Chronic ethanol; Pancreatic acini; Transcription (Ponnappa, B.C. (1158) 113)

cDNA; eIF4A; Initiation factor; Nucleotide sequence; (Rice) (Nishi, R. (1174) 293)

T cell; Phosphorylation; Mitogen; eIF-2α; eIF-4α (Boal, T.R. (1176) 257)

Translational control
Protein synthesis; Phosphoinositide hydrolysis; Endothelin; Cardiomyocyte; Protein kinase C; pH, intracellular (Sugden, P.H. (1175) 327)

Translational efficiency
Subtilisin inhibitor; Minor codon; *bldA*; tRNA; (*Streptomyces*) (Ueda, Y. (1172) 262)

Translation control
mRNA; Translation, in vitro; Spleen inhibitor; Trypsin inhibitor; Precursor; Aprotinin; (Bovine) (Gambacurta, A. (1174) 267)

Translation, in vitro
mRNA; Spleen inhibitor; Translation control; Trypsin inhibitor; Precursor; Aprotinin; (Bovine) (Gambacurta, A. (1174) 267)

Translocase
Lipid translocation; Transbilayer movement; Spin label; (Erythrocyte) (Cribier, S. (1148) 85)

Translocation
Lipid structure; Protonmotive force; Protein secretion; (*C. glutamicum*) (Bayan, N. (1146) 97)

Ether glycerophospholipid; Plasmalogen-deficient fibroblast; Fibroblast (Van der Veer, E. (1146) 294)

ATPase, H^+-; Microsome; Integration; Invertase; (Yeast); (*N. crassa*) (Addison, R. (1152) 119)

Elongation factor G; GTPase; Regulation; Ribosome (Nagel, K. (1174) 153)

Translocation factor
Nuclear *fus* gene; Chloroplast; Elongation factor G; (Soybean) (Torres, J.H. (1174) 191)

Transmembrane electric potential
Photosynthetic reaction center; Quinone acceptor; Proton uptake; (*R. sphaeroides*) (Shinkarev, V.P. (1144) 285)

Transmembrane mobility
Phospholipid; Distribution; Spin label; (Erythrocyte); (Mouse) (Müller, P. (1151) 7)

Transmembrane orientation
Mitochondrion; Phosphate carrier; Reconstitution; Thiol modification; Membrane permeability (Stappen, R. (1149) 40)

Transmembrane pH gradient
Doxorubicin; pH gradient; Liposome; LUV (Harrigan, P.R. (1149) 329)

Transmembrane potential
Dye uptake; 2-(4-Dimethylaminostyryl)-1-ethylpyridinium cation; Phospholipid vesicle; Tetraphenylboron (Sedgwick, E.G. (1146) 113)

Transmission electron microscopy
Cholesterol gallstone; Nucleation time; Apolipoprotein A-I; Vesicle; Discoidal particle (Tao, S. (1166) 25)

Transphosphorylation
Permeabilization; Exocytosis; Calcium; ATP; Guanine nucleotide; G protein; (Mast cell) (Koffer, A. (1176) 231)

Transport
Betaine; Mitochondrion; Diffusion; (Rat liver) (Porter, R.K. (1141) 269)

Sodium-proton antiporter; Potassium-proton antiporter; Mitochondrion; (Yeast) (Welihinda, A.A. (1144) 367)

Cationic compound; Brush-border membrane; Membrane potential; Binding characteristics; Membrane surface (Iseki, K. (1146) 121)

Urate transport; Basolateral membrane vesicle; Brush-border membrane vesicle; (Rat kidney) (Polkowski, C.A. (1146) 145)

Gramicidin; Membrane; Phenylalanine; NMR, ^{23}Na- (Hinton, J.F. (1146) 191)

Lipid peroxidation; Fluidity; Brush-border membrane; (Intestine) (Nalini, S. (1147) 169)

Facilitated transport; β-Alanine; GABA; Taurine; Sodium; Baclofen; (Rat) (Polache, A. (1147) 267)

Temperature; Water; Pulmonary; Membrane (Garrick, R.A. (1148) 108)

Bile acid; Placenta; Basal membrane; (Human) (Serrano, M.A. (1151) 28)

Photodynamic treatment; Toluidine blue; Yeast; (*K. marxianus*) (Paardekooper, M. (1151) 143)

Organic cation; Brush-border membrane; Membrane potential; (Rat intestine) (Iseki, K. (1152) 9)

HMG-CoA reductase inhibitor; Pravastatin; Liver; Bile acid; (Rat) (Ziegler, K. (1153) 23)

PEP-dependent mannitol : phosphotransferase system; Enzyme IICB/enzyme IIA; (Escherichia coli K-12) (Sprenger, G.A. (1158) 103)

Cobalamin; Transcobalamin II (Li, N. (1172) 21)

Transport activity
Red cell membrane; Sodium pump; ATPase; Acylphosphatase (Nassi, P. (1147) 19)

P-glycoprotein; Glycoprotein; Progesterone; Progesterone metabolite; Multidrug resistance; (Adrenal gland) (Lchikawa-Haraguchi, M. (1158) 201)

Transport ATPase
ATPase, H^+-; ATP; ATP activation; (Yeast) (Berberián, G. (1153) 283)

Transporter
Leukotriene B_4; Oocyte; Microinjection; ATP (Mori, M. (1168) 23)

Tyramine; Hepatocyte; (Rat) (Zhong, Z.-D. (1176) 77)

Transport kinetics
Cryptand; Nonactin; Temperature jump; Mobile carrier, ionizable and neutral; Alkali cation transport kinetics; Membrane structure (Vareille, G. (1146) 25)

Membrane potential; Cation transport; Uptake rate; (Yeast); (*S. cerevisiae*) (Borst-Pauwels, G.W.F.H. (1152) 201)

Transport mechanism
Mitochondrion; Reconstitution; Tricarboxylate carrier; (Rat liver) (Bisaccia, F. (1142) 139)

Reconstitution; Dicarboxylate carrier; (Rat liver mitochondria) (Indiveri, C. (1143) 310)

Transport regulation
Neurotransmitter; Neurotransmitter transport; Biogenic amine; cDNA (Rudnick, G. (1144) 249)

Transport retention chromatography
D-Glucose; Glucose transporter; Immobilization; pH; Proteoliposome; (Human erythrocyte) (Lu, L. (1150) 135)

Transport system
Choline; Hemicholinium (HC-3); Epithelial cell; Polarity; (MDCK cell) (Zlatkine, P. (1153) 237)

Transthyretin
Retinol-binding protein; Retinol; Oocyte; (Chicken) (Vieira, A.V. (1169) 250)

Transverse tubule
Phospholipase C; Calcium ion; GTP analog; Triad; (Frog); (Skeletal muscle) (Carrasco, M.A. (1152) 44)

TRAP
c-*erbA*; Thyroid hormone responsive element; Phospho*enol*pyruvate carboxykinase; Transcriptional control (Schmidt, E.D.L. (1172) 82)

Trehalase
Protein–lipid interaction; Enzyme regulation; Enzyme phosphorylation; Phosphorylation; (*S. cerevisiae*) (Soares de Araujo, P. (1148) 303)

cDNA; Midgut; (*B. mori*) (Su, Z.-H. (1173) 217)

Trehalose
Rehydration; Phospholipid; Bilayer; Phase transition (Viera, L.I. (1145) 157)

Trehalose carrier
Dehydration; (*Saccharomyces cerevisiae*) (Eleutherio, E.C.A. (1156) 263)

Triacylglycerol
Apolipoprotein A-IV; mRNA; Intestinal apo A-IV; Serum triacylglycerol; Fat absorption; Fat secretion; (Rat pups) (Sato, M. (1165) 93)

Hepatocyte monolayer; Gemfibrozil; Phosphocholine cytidylyltransferase; Phosphatidylcholine; Oleate; (Rat) (Lamb, R.G. (1165) 299)

Cholesterol; Diet; Hypercholesterolaemia; Hypertriglyceridaemia; Phosphatidate phosphohydrolase (Sessions, V.A. (1166) 238)

Insulin; Diabetes; Streptozotocin; Fish oil; Cholesterol; Glucose; Glucose-6-phosphate dehydrogenase; (Rat) (Baltzell, J.K. (1167) 197)

Lipid; Phenytoin; Dilantin; Skeletal muscle disorder; Fatty acid (Fletcher, J.E. (1168) 292)

Etofibrate; Free fatty acid; Glycerol; Cholesterol metabolism; HMG-CoA reductase; (Rat) (Bocos, C. (1168) 340)

Cardiac; Lipolysis; Fatty acid metabolism; NMR, ^{1}H- (Madden, M.C. (1169) 176)

Triarachidonoylglycerol; Triacylglycerol biosynthesis; Arachidonic acid; Phospholipid; Lipolysis; Triacylglycerol lipase (Blank, M.L. (1170) 275)

Triacylglycerol biosynthesis
Triacylglycerol; Triarachidonoylglycerol; Arachidonic acid; Phospholipid; Lipolysis; Triacylglycerol lipase (Blank, M.L. (1170) 275)

Triacylglycerol hydrolysis
VLDL; Heparin-Sepharose; Apolipoprotein; Lipoprotein lipase; Adipose tissue; (Human) (Gómez-Coronado, D. (1167) 70)

Triacylglycerol lipase
Triacylglycerol; Triarachidonoylglycerol; Triacylglycerol biosynthesis; Arachidonic acid; Phospholipid; Lipolysis (Blank, M.L. (1170) 275)

Triacylglycerol-rich lipoprotein, elevated level
Alkenylacyl phosphatidylethanolamine; Sodium/potassium ion co-transport; Sodium/potassium ion pump kinetics; Lipoprotein; Hypercholesterolemia (Duhm, J. (1149) 185)

Triad
Phospholipase C; Calcium ion; GTP analog; Transverse tubule; (Frog); (Skeletal muscle) (Carrasco, M.A. (1152) 44)

Triarachidonoylglycerol
Triacylglycerol; Triacylglycerol biosynthesis; Arachidonic acid; Phospholipid; Lipolysis; Triacylglycerol lipase (Blank, M.L. (1170) 275)

Tricarboxylate carrier
Mitochondrion; Reconstitution; Transport mechanism; (Rat liver) (Bisaccia, F. (1142) 139)

Tricarboxylic acid cycle
NMR, ^{13}C-; Alanine; Glucogenesis; (*Manduca sexta*) (Thompson, S.N. (1157) 259)

Triclosan
Bacterium; Bactericide; Targeting; Proteoliposome; Concanavalin A; (*S. sanguis*); (*S. mutans*) (Jones, M.N. (1147) 251)

Trifluoroaceate
Erythrocyte; Membrane transport; NMR, ^{19}F- (Xu, A.S.L. (1150) 35)

Trifluoromethanesulfonic acid
Turkey ovomucoid; Deglycosylation; Proteinase inhibitor; Trypsin domain; Chymotrypsin domain (Dabich, D. (1164) 47)

Trifunctional enzyme
Gastrin-binding protein; Enoyl-CoA hydratase; 3-Hydroxyacyl-CoA dehydrogenase; Nucleotide sequence (Mantamadiotis, T. (1170) 211)

Trihydroxy fatty acid
Hatching factor; Barnacle lipoxygenase; Icosanoid (Hill, E.M. (1157) 297)

Triiodothyronine
Adipose tissue; Lipoprotein lipase; Food restriction (Cruz, M.L. (1168) 205)

Trimethylamine
Flavin-containing monooxygenase; *N,N*-Dimethylaniline *N*-oxidase; Immunoblot; Western transfer; Sex; Age (Schlenk, D. (1156) 103)

Triple-tracer liquid scintillation counting
Sodium ion/proton antiporter; Sodium ion transport, light-driven; DCCD inhibition; Sodium ion/proton exchange stoichiometry; (*H. halobium*) (Konishi, T. (1140) 1)

Triplet state
Photosystem II; D1-D2-cyt *b*-559 complex; Chlorophyll *a*; Pheophytin *a*; Absorbance spectrum (Van der Vos, R. (1140) 184)

Photosystem II; Reaction center; Photosynthesis; Singlet oxygen; P680; Luminescence (Macpherson, A.N. (1143) 301)

Trophoblast
Choline; Placenta; Maternal-fetal transport (Garner, S.C. (1168) 358)

Tropomyosin
Caldesmon; Cooperativity; Amino-terminal-deleted tropomyosin; Smooth muscle; Fibroblast (Novy, R.E. (1162) 255)

Actin; Regulated filament; Protein conformation; Dynamics; Polarized fluorescence (Borovikov, Y.S. (1163) 280)

Troponin
Nuclear Overhauser effect; (Heart) (Campbell, A.P. (1160) 35)

Truncated variant
Serum albumin; Splice-site mutation; Low expression; (Albumin Rugby Park) (Peach, R.J. (1180) 107)

Trypanosome DNA binding protein
Ribosomal gene promotor; Characterization; Purification; (*T. brucei*) (Mburu, P.W. (1172) 5)

Trypsin
α_2-Macroglobulin; Light scattering; Calorimetry; DSC; Conformational change (Middaugh, C.R. (1161) 328)

Protamine; α-Chymotrypsin; Primary structure; Mass spectrometry; (*S. caniculus*) (Kouach, M. (1162) 99)

Trypsin domain
Turkey ovomucoid; Deglycosylation; Trifluoromethanesulfonic acid; Proteinase inhibitor; Chymotrypsin domain (Dabich, D. (1164) 47)

Trypsin inhibitor
mRNA; Translation, in vitro; Spleen inhibitor; Translation control; Precursor; Aprotinin; (Bovine) (Gambacurta, A. (1174) 267)

Tryptophan
Gramicidin; Micelle; Ultraviolet photolysis; Degradation; Photolytic degradation; Rate constant (McKim, S. (1153) 315)

3-Deoxy-D-*arabino*-heptulosonate 7-phosphate synthase; Aromatic compound; (*S. rimosus*) (Stuart, F. (1161) 209)

S-100a; Phase fluorometry; Phospholipid (Zolese, G. (1162) 47)

Tryptophan fluorescence
Angiogenesis; Ribonuclease superfamily; Ribonuclease inhibitor; Homology (Bond, M.D. (1162) 177)

Phospho*enol*pyruvate carboxykinase; Nucleotide binding; Conformational change (Encinas, M.V. (1162) 195)

Tryptophan phosphorescence
Myosin subfragment 1; Fluorescence anisotropy; Transient electric birefringence; Structural dynamics (Papp, S. (1159) 267)

Tryptophan-repressor
Protein-DNA complex; NMR; Protein-ligand complex (Evans, J.N.S. (1160) 156)

(+)-Tubocurarine
Raman spectroscopy; Acetylcholine receptor; Carbamylcholine (Aslanian, D. (1148) 291)

Tubular tumor cell
Glycosphingolipid; Galactosyltransferase, B1-4; Lactosylceramide; LDL receptor; Kidney; (Human) (Chatterjee, S. (1167) 339)

Tubulin
Detyrosination; Carboxypeptidase; (Brain); (Muscle) (Alonso, A.C. (1163) 26)

Tumor-associated antigen
Neoplasm; Antibody; Autologous antibody; Immunology; Serology; (Head); (Neck) (Vlock, D.R. (1181) 174)

Melanoma; Immunology; Serology (Toporowicz, A. (1182) 51)

Tumor cell
Ehrlich ascites tumor cell; Intracellular calcium; Volume regulation (Thomas-Young, R.J. (1146) 81)

Liposome; Antibody; Cytostatic effect; Recombinant; Tumor necrosis factor (Morishige, H. (1151) 59)

Islet cell; Nitric oxide donor; Cytotoxicity; Rat; Macrophage (Kröncke, K.-D. (1182) 221)

Tumor cell A431
Immunoliposome; Drug targeting; Methotrexate; Placental alkaline phosphatase; Alkaline phosphatase; Antibody (Jones, M.N. (1152) 231)

Tumor invasiveness
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Tumor marker
Glyoxalase I; Glutathione *S*-transferase; Carcinoma; Colon; (Human) (Ranganathan, S. (1182) 311)

Tumor necrosis factor
Liposome; Antibody; Cytostatic effect; Recombinant; Tumor cell (Morishige, H. (1151) 59)

Granulocyte-macrophage colony-stimulating factor; Granulocyte colony-stimulating factor; Tyrosine phosphorylation; Intracellular alkalinization; (Human neutrophil) (Yuo, A. (1156) 197)

Lectin; *Euphorbia marginata*; Mitogen; Hemagglutinin; Interleukins (Stirpe, F. (1158) 33)

Nitric oxide production; Antitumor activity; Cytotoxicity; (Human-mouse hybrid cell line) (Southern, C. (1177) 179)

Tumor necrosis factor α
Glycosaminoglycan; Cytokine; (Bovine vascular smooth-muscle cell) (Kaji, T. (1176) 20)

Tumor promoter
c-*fos*; Calcium; Epidermal growth factor; (Hepatoma cell); (Human) (Tsukamoto, A. (1177) 31)

Tumor promotion
Peroxide; Peracid; Radical; EPR; Spin trapping; Cytochrome *P*-450; Benzoyl peroxide (Greenley, T.L. (1157) 23)

Arachidonic acid; Protein kinase C; Signal transduction; Phorbol ester; (Rat brain) (Huang, X.P. (1175) 351)

Turgor pressure regulation
DIDS; SITS; Chloride carrier; Charge pulse; (*V. utricularis*) (Spieß, I. (1149) 93)

Turkey ovomucoid
Deglycosylation; Trifluoromethanesulfonic acid; Proteinase inhibitor; Trypsin domain; Chymotrypsin domain (Dabich, D. (1164) 47)

Turnover rate
Collagen turnover; Isotope ratio mass spectropetry; Collagen type (Rucklidge, G.J. (1156) 57)

Turnover study
Proapolipoprotein AI; Catabolism; Fractional catabolic rate; HDL; Isoelectric focusing; Isoprotein (Saku, K. (1167) 257)

Two-cell block
$p34^{cdc2}$; Cell cycle; Superoxide dismutase; Thioredoxin; Oxidative stress; (Mouse embryo) (Natsuyama, S. (1176) 90)

Two-dimensional crystal
Catalase; Poly(1-benzyl-L-histidine); Air/water interface; Monolayer; Annealing (Sato, A. (1162) 54)

Two-dimensional electrophoresis
Reverse cholesterol transport; Interstitial fluid; Prenodal peripheral lymph; Apo A-I-containing subpopulation (Asztalos, B.F. (1169) 301)

Aminopeptidase M; Hypertensive rat; Renin; Sodium transport (Salardi, S. (1182) 22)

Two-dimensional gel electrophoresis
Protein disulfide isomerase; Hepatocellular transport; Bile acid; Photoaffinity labeling; Bumetanide (Honscha, W. (1153) 175)

Interferon γ; Regulation; Dermal fibroblast; (Human) (Smith, T.J. (1181) 300)

TXA_2/PGH_2 receptor
Thromboxane A_2; Glomerular function; Receptor binding; Nephrotic syndrome; (Kidney) (Mayeux, P.R. (1181) 148)

Type II pneumocyte
Nitrogen dioxide; Lung surfactant; Phospholipid synthesis; (Rat) (Müller, B. (1170) 38)

Type IV collagen
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Type-1 muscle
AMP deaminase; Adenylate deaminase; Type-2 muscle; Myoadenylate deaminase deficiency; Isozyme immunochemistry; (Muscle) (Fishbein, W.N. (1163) 97)

Type-2 muscle
AMP deaminase; Adenylate deaminase; Type-1 muscle; Myoadenylate deaminase deficiency; Isozyme immunochemistry; (Muscle) (Fishbein, W.N. (1163) 97)

Tyramine
Transporter; Hepatocyte; (Rat) (Zhong, Z.-D. (1176) 77)

Tyrosinase
Free radical; Protein; Reactive group; DOPA (Simpson, J.A. (1156) 190)

Dopa; Topa; Melanin; Melanin biosynthesis; Melanogenesis (Rodríguez-López, J.N. (1160) 221)

Tyrosine hydroxylation; Hydroxyl radical; Ferrous ion; Enzyme kinetics (Ros, J.R. (1163) 303)

Tyrosine D^+
Photosynthesis; ENDOR; Photosystem II; Surrounding proton; Delocalized spin model (Mino, H. (1144) 426)

Tyrosine hydroxylation
Tyrosinase; Hydroxyl radical; Ferrous ion; Enzyme kinetics (Ros, J.R. (1163) 303)

Tyrosine kinase
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Baculovirus; Phosphorylation (Reynolds, C.H. (1181) 122)

Tyrosine phosphorylation
Tumor necrosis factor; Granulocyte-macrophage colony-stimulating factor; Granulocyte colony-stimulating factor; Intracellular alkalinization; (Human neutrophil) (Yuo, A. (1156) 197)

Salivary gland; Signal transduction; Galactosyltransferase; Epidermal growth factor (Purushotham, K.R. (1178) 40)

Phospholipase C; Signal transduction; (Platelet) (Tate, B.F. (1178) 281)

Respiratory burst; Protein kinase C; (Human neutrophil) (Azuma, E.K. (1179) 213)

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Ubiquinol-10
Antioxidant; Atherosclerosis; Coenzyme Q; NADH-dehydrogenase (Stocker, R. (1158) 15)

Vitamin E; Peroxyl radical; LDL; Lipid peroxidation; Nutrition (Suarna, C. (1166) 163)

Ubiquinol-fumarate reductase
Succinate-ubiquinone reductase; NAD(P)H : quinone reductase; Respiratory chain; (Bovine heart mitochondrion) (Grivennikova, V.G. (1140) 282)

Ubiquinol oxidase
Cytochrome *o*; Cytochrome *bo* oxidase; Heme O; (*V. alginolyticus*) (Miyoshi-Akiyama, T. (1141) 283)

Ubiquinone
Microsome; Oxidoreduction (Shigemura, T. (1141) 213)

Cytochrome *b*; Respiration inhibition; Amino acid sequence; Mitochondrial DNA sequence; DNA; Molecular evolution (Degli Esposti, M. (1143) 243)

3-Hydroxy-3-methylglutaryl-coenzyme A reductase; Lovastatin; Fenofibrate; Cardiomyopathy; (Syrian Hamster) (Bélichard, P. (1169) 98)

Dolichol; Coenzyme Q; Isoprenoid; Liver; Cholesterol (Keller, R.K. (1170) 204)

Ubiquinone pool (Q-pool)
Alternative oxidase; Cyanide-resistant respiration; Mitochondrion; Electron transfer; (Plant) (Siedow, J.N. (1142) 165)

Ubiquitin
cDNA; Seminal vesicle; (Bovine) (Wempe, F. (1172) 209)

Proteolysis; Lens; Damaged or obsolete protein turnover (Huang, L.L. (1175) 181)

U937 cell
Prostaglandin E_2 receptor; cyclic AMP; Adenylate cyclase; Desensitization (Loh, C.L. (1177) 43)

UDP-galactose : glucosylceramide β-galactosyltransferase
Glycosphingolipid; Ganglioside; Monocyte/macrophage differentiation; UDP-glucose : ceramide glucosyltransferase; CMP-*N*-acetylneuraminic acide : lactosylceramide sialyltransferase (Kiguchi, K. (1176) 27)

UDP-glucose : ceramide glucosyltransferase
Glycosphingolipid; Ganglioside; Monocyte/macrophage differentiation; UDP-galactose : glucosylceramide β-galactosyltransferase; CMP-*N*-acetylneuraminic acide : lactosylceramide sialyltransferase (Kiguchi, K. (1176) 27)

UDP-glucuronosyltransferase
Kinetics; Retinoic acid; Glucuronidation; Retinoyl β-D-glucuronide; Liposome; Microsome (Salyers, K.L. (1152) 328)

Glutathione *S*-transferase; Epoxide hydrolase; Liver; (Rat) (Yang, E.K. (1168) 52)

Ultracentrifugation
Reverse cholesterol transport; HDL; Coronary heart disease; Preβ apo A-I; Subpopulation; Plasma lipoprotein; Electrophoresis, two-dimensional (Asztalos, B.F. (1169) 291)

Ultracentrifuge
Synthetic boundary cell; Flotation coefficient; Lipoprotein; (Human serum) (Okajima, Y. (1169) 103)

Ultrafast spectroscopy
Antenna; Chlorophyll *a*; Cyanobacterium; Photosystem I; Pump-probe spectroscopy; (*Synechococcus*) (Lin, S. (1140) 6)

Ultrasound
Bilayer lipid membrane; Unstirred layer; Protonophore; Weak acid (Pohl, P. (1145) 279)

Bilayer lipid membrane; Unstirred layer; Weak acid; pH profile; Microelectrode (Pohl, P. (1152) 155)

Ultraviolet difference absorption spectroscopy
Pancreatic phospholipase A_2; Competitive inhibition; 2-Acylamino phospholipid; Phospholipase A_2; Lipolysis (De Haas, G.H. (1167) 281)

Ultraviolet light
Skin; Glycosaminoglycan; Vitamin E; Infrared; ^{1}H-NMR spectroscopy; (Rat) (Longas, M.O. (1156) 239)

Ultraviolet photolysis
Gramicidin; Micelle; Tryptophan; Degradation; Photolytic degradation; Rate constant (McKim, S. (1153) 315)

Uncoupler
Pentachlorophenol; Lipid membrane; Proton transport (Barstad, A.W. (1140) 262)

AU-1421; Oxidative phosphorylation; Protonophore; (Rat mitochondria) (Nagamune, H. (1141) 231)

Fluorescence quenching; Photosystem II; Localized proton; Carotenoid de-epoxidation (Finazzi, G. (1142) 123)

Unilamellar vescile
Superoxide anion; Phase transition temperature; Permeation; Bilayer (Gomes, L.F. (1152) 78)

Unilamellar vesicle
Phosphatidic acid; Thermodynamic stability; pH gradient (Lin, B.Z. (1147) 237)

Phosphatidylcholine; Osmotic sensitivity; Salt gradient; Thermodynamic stability (Lerebours, B. (1152) 49)

***unr* gene**
N-*ras*; Exon shipping; Transcriptional interaction (Boussadia, O. (1172) 64)

Unsaturated fatty acid
Liver microsome; Acyl-CoA 6-desaturase; Acyl-CoA 5-desaturase; Biosynthesis (Geiger, M. (1170) 137)

Unsaturation
Cholesterol; Phosphatidylcholine; Phase transition; DSC; Lipid–cholesterol interaction (Hernandez-Borrell, J. (1153) 277)

Unstirred layer
Bilayer lipid membrane; Ultrasound; Protonophore; Weak acid (Pohl, P. (1145) 279)

Bilayer lipid membrane; Ultrasound; Weak acid; pH profile; Microelectrode (Pohl, P. (1152) 155)

3′ Untranslated region
ATP binding site; Multidrug resistance; P-glycoprotein; Glycoprotein; Detoxification; (Winter flounder) (Chan, K.M. (1171) 65)

Upstream AUG codon
Argininosuccinate lyase; Urea cycle; Nitric oxide; B1 repeat; Upstream open reading frame; Brain; (Rat) (Kawamoto, S. (1173) 111)

Upstream open reading frame
Argininosuccinate lyase; Urea cycle; Nitric oxide; B1 repeat; Upstream AUG codon; Brain; (Rat) (Kawamoto, S. (1173) 111)

Uptake
Carnitine; Intestine; Retention; Development (Gross, C.J. (1170) 265)

Uptake rate
Membrane potential; Cation transport; Transport kinetics; (Yeast); (*S. cerevisiae*) (Borst-Pauwels, G.W.F.H. (1152) 201)

Urate transport
Transport; Basolateral membrane vesicle; Brush-border membrane vesicle; (Rat kidney) (Polkowski, C.A. (1146) 145)

Urea cycle
Argininosuccinate lyase; Nitric oxide; B1 repeat; Upstream AUG codon; Upstream open reading frame; Brain; (Rat) (Kawamoto, S. (1173) 111)

Urea denaturation
aEF-1α; EF-Tu; Archaebacterium; Thermostability (Masullo, M. (1162) 35)

Ureogenesis
Gluconeogenesis; Perfused liver; Ornithine uptake (Martín-Requero, A. (1158) 166)

Uric acid
Hypoxanthine recovery; Adenine nucleotide; Reperfusion; Aging (Finelli, C. (1180) 262)

Urinary oxalate
Oxalate; Oxalate oxidase; Grain sorghum (Satyapal, (1161) 1)

Urocanic acid
Glutathione; Imidazole compound; Mass spectrometry; Paper electrophoresis; (Human urine) (Kinuta, M. (1157) 192)

Urokinase
Plasminogen; Plasminogen activator; Plasminogen activator inhibitor-1; Tissue-type plasminogen activator; Reversible binding (Mimuro, J. (1160) 325)

Pro-urokinase; Thermolysin; Plasminogen activator (Marcotte, P.A. (1161) 105)

Urokinase-type plasminogen activator receptor
Urokinase-type plasminogen activator; Cathepsin B; Ovarian cancer; Membrane protein (Kobayashi, H. (1178) 55)

Urokinase-type plasminogen activator receptor; Cathepsin B; Ovarian cancer; Membrane protein (Kobayashi, H. (1178) 55)

U1 snRNP
Protein, 70K; cDNA; RNA processing; Splicing; (*A. thaliana*) (Reddy, A.S.N. (1171) 88)

Uterine endometrium
Sulfatide; Ganglioside; Cervical epithelium; Fallopian tube (Takamatsu, K. (1170) 232)

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V gene
Somatic mutation; DNA context; Classification (Rogozin, I.B. (1171) 11)

V3 loop
HIV-1; Principal neutralizing determinant (Murakami, T. (1181) 155)

Vaccinia virus
Posttranslational modification; ADP-ribosylation; Metabolic inhibitor (Child, S.J. (1157) 217)

Vacuole
ATPase; ATPase subunit B; Gene expression; (*S. cerevisiae*) (Pan, Y.-X. (1151) 175)

Dicarboxylate transport; Malate; Protein modification; Tonoplast; (*Kalanchoë*) (Bettey, M. (1152) 270)

Valine dehydrogenase
Amino acid dehydrogenase; Leucine dehydrogenase; (*A. faecalis*) (Ohshima, T. (1162) 221)

Valinomycin
Lipophilic cationic probe; Isonitrile; Organotechnetium compound; Membrane potential; Large unilamellar vesicle; Radionuclide (Chernoff, D.M. (1147) 262)

Monolayer; Complexation; Ion selectivity (Zaitsev, S.Y. (1148) 191)

Vanadate
ATPase, Ca^{2+}-; Synergistic activation; Magnesium ion; Enzyme activation; Erythrocyte; (Human) (Romero, P.J. (1143) 45)

Fura-2; Multidrug transporting system; Anionic transport system; Intracellular calcium ion; Calcium ion, intracellular; Probenecid (Parisi, M. (1151) 1)

Diabetes; *N*-Myristoyl transferase; (Rat liver) (King, M.J. (1165) 259)

Diabetes; Phenylalanine hydroxylase; Phenylalanine hydroxylase expression (Green, A.K. (1180) 21)

Vanadium
Fungus; Chloroperoxidase; (*C. inaequalis*) (Van Schijndel, J.W.P.M. (1161) 249)

Variant
Factor VII; Mutation (James, H.L. (1172) 301)

Vascular cell adhesion molecule 1
Atherosclerosis; Flow chamber; Intercellular adhesion molecule 1; Myeloperoxidase; Rose Bengal (Jeng, J.-R. (1178) 221)

Vascular smooth muscle cell
ATP diphosphohydrolase; Apyrase; Purine nucleotide; Platelet aggregation (Côté, Y.P. (1160) 246)

Vasodilatory drug
Liposomal membrane; Stabilizing effect; Fluorescence anisotropy (Ghosh, A.K. (1153) 20)

Vastatin
Pravastatin; Lovastatin; Ocular lens; Cholesterol; HMG-CoA reductase inhibitor (De Vries, A.C.J. (1167) 63)

VDAC
Membrane channel, voltage dependent; Mitochondrion; Membrane channel modulation; Modulator protein (Holden, M.J. (1144) 396)

Mitochondrion; Porin; Reconstitution; Liposome; Polyanion (Báthori, G. (1145) 168)

VEG protein
cDNA sequence; Lipocalin superfamily; Taste perireceptor event; Salivary gland; (Human) (Bläker, M. (1172) 131)

Velocity, ion
Doppler scattering; Gramicidin; Intrachannel velocity; Laser Doppler velocity (Macias, F. (1153) 331)

Ventricle
mRNA; Sodium ion pump; ATPase, Na^+/K^+-; Cardiomyopathy; Pulmonary hypertension; (Human); (Heart) (Zahler, R. (1149) 189)

Verapamil
Anoxia; Cytosolic free calcium; LDH release; Cell viability; Calcium ion channel blocker; Nifedipine; Diltiazem; (Rat hepatocyte) (Gasbarrini, A. (1177) 1)

Very-long-chain fatty acid
Acyl-CoA elongase; Icosanoyl-CoA synthase; Acyl-CoA; Lipid; Membrane (Lessire, R. (1169) 243)

Vesamicol
Cholinergic synaptic vesicle; Recycling; Electric organ; (*T. marmorata*) (Říčný, J. (1148) 234)

Vesicle
Protein 4.1; High pressure; Diamide; Erythrocyte; (Human) (Yamaguchi, T. (1147) 1)

Fluorescence quenching; Lipopeptide; Peptide synthesis; Fluorescence microscopy; EPR (Metzger, J.W. (1149) 29)

Plasma membrane; Merocyanine 540; Lipid; (BHK cell); (HL60 cell) (Whatmore, J. (1152) 300)

Cholesterol gallstone; Nucleation time; Apolipoprotein A-I; Discoidal particle; Transmission electron microscopy (Tao, S. (1166) 25)

Lecithin; Nucleation time; Cholesterol gallstone (Tao, S. (1167) 142)

Vesicle formation
Phase equilibrium; DOPC; Glycerol/water mixture; X-ray diffraction; NMR, ^{31}P- (Johansson, L.B.-Å. (1149) 285)

Vesicle leakage
Cytolysin; Lipid–protein interaction; Non-bilayer lipid; α-Hemolysin (Ostolaza, H. (1147) 81)

Vesicle membrane
Chromogranin B; pH-dependent binding; Secretory vesicle; Matrix protein (Yoo, S.H. (1179) 239)

Vesicular trafficking
Osmoregulation; GTP-binding protein; Small GTP-binding protein; Cell volume control; (*D. salina*) (Memon, A.R. (1179) 11)

v-ets
ETS domain; Transcription activation; (Neuroepiteloma cell) (Hromas, R. (1172) 155)

Vicinal cysteine
Phospho*enol*pyruvate carboxykinase; Chemical modification; Peptide sequence (Rojas, M.C. (1164) 143)

Video microscopy
Electroinsertion; Glycophorin; Lateral diffusion; Microscopy (El Ouagari, K. (1151) 105)

Vinblastine
Transepithelial transport; P-glycoprotein; Multidrug resistance; Cytotoxicity; (Kidney cell-line); (MDCK cell) (Hunter, J. (1179) 1)

Vincristine
Liposome; Drug retention; Lipid composition; pH, internal; Internal buffering capacity (Boman, N.L. (1152) 253)

Violaxanthin
Xanthophyll cycle; Epoxidase; Zeaxanthin; Light harvesting complex II (Gruszecki, W.I. (1144) 97)

Virosome
Sendai virus; Fusion; Drug delivery; Liver (Bagai, S. (1152) 15)

Virus replication inhibitory peptide
Lipid polymorphism; Membrane intrinsic curvature; Anti-viral agent; Membrane fusion (Epand, R.M. (1152) 128)

Visceral yolk sac
Intrinsic factor; Cobalamin; Receptor; Membrane; Placenta (Ramanujam, K.S. (1146) 243)

Viscosity
Hemoglobin; Multiple emulsion; Oxygen affinity; Exchange-transfusion; Stability (Zheng, S. (1158) 65)

Protein-surfactant interaction; Surfactant binding; Electrophoresis (Shinagawa, S. (1161) 79)

Visible absorption spectrum
Saturated phosphatidylcholine; Phosphatidylcholine; Cholesterol; Lipid bilayer; Gel state; Merocyanine 540; Fluorescence band; Surface property (Bernik, D.L. (1146) 169)

Visual cycle
Retinol dehydrogenase; Pigment epithelium; Monoclonal antibody; 11-*cis*-Retinal; Rhodopsin; (Retina) (Suzuki, Y. (1163) 201)

Vitamin A
Retinoid; Lipase; Carboxyl ester hydrolase (Harrison, E.H. (1170) 99)

hnRNP A1; cDNA cloning; Gene expression; Tracheobronchial epithelium (An, G. (1172) 292)

Vitamin D-3
Potassium ion current; Osteoblast; cyclic GMP (Chesnoy-Marchais, D. (1148) 239)

Calcium; Bone calcification; Steroid; Receptor (Darwish, H.M. (1167) 29)

Homeobox; Osteoblastic cell; Bone (Hodgkinson, J.E. (1174) 11)

Hyaluronate; Proteoglycan; Bone; Rickets; Chick (Dickson, I.R. (1181) 15)

Vitamin D metabolite
Steroid hormone receptor; Calcium deprivation; (Bone) (Uhland-Smith, A. (1176) 321)

Vitamin E
Skin; Glycosaminoglycan; Ultraviolet light; Infrared; ^{1}H-NMR spectroscopy; (Rat) (Longas, M.O. (1156) 239)

Ubiquinol-10; Peroxyl radical; LDL; Lipid peroxidation; Nutrition (Suarna, C. (1166) 163)

Macrophage; Phospholipase A_2 (Sakamoto, W. (1170) 296)

Vitronectin
Cell-spreading; Heat resistance; Autoclave resistance; RGD sequence; Sterilization (Miyazaki, K. (1159) 215)

VLDL
Dolichol; Lipid transfer; Lipoprotein; HDL (Van Dessel, G. (1166) 64)

Lipoprotein; Apoprotein; LDL; HDL; (Quail) (Oku, H. (1167) 22)

Heparin-Sepharose; Apolipoprotein; Lipoprotein lipase; Triacylglycerol hydrolysis; Adipose tissue; (Human) (Gómez-Coronado, D. (1167) 70)

Hypocholesterolemic fatty acid analogue; Lipogenic enzyme; ACAT; (Rat) (Skorve, J. (1167) 175)

Lipoprotein; HDL; Jejunum (Loirdighi, N. (1175) 100)

Voltage clamp
A current; Inactivation kinetics (Alekseev, S.I. (1148) 97)

Voltage clamp technique
Membrane potential; Gastric mucosa; Thiocyanate ion; Cimetidine; SCH 28080; (*R. pipiens*) (Carrasquer, G. (1149) 195)

Volume regulation
Ehrlich ascites tumor cell; Tumor cell; Intracellular calcium (Thomas-Young, R.J. (1146) 81)

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Walker tumor
Plasma membrane actin; Actin; Cytochalasin binding; G-actin-binding protein (Goodlad, G.A.J. (1145) 177)

Water
Temperature; Pulmonary; Membrane; Transport (Garrick, R.A. (1148) 108)

Water activity
Organic solvent; Chymotrypsin; Ester synthesis (Blanco, R.M. (1156) 67)

Water-soluble micronutrient transport
Riboflavin transport; Basolateral membrane; Intestinal transport; (Rabbit small intestine) (Said, H.M. (1148) 263)

Water splitting system
Photosystem II; Photosynthesis; Chlorophyll-binding protein; Thermoluminescence; Thylakoid membrane (Carpenter, S.D. (1144) 204)

Water stress
Membrane; Heterocyst gycolipid; Protein stability; Cyanobacterium; (*N. Commune*) (Taranto, P.A. (1168) 228)

Weak acid
Bilayer lipid membrane; Ultrasound; Unstirred layer; Protonophore (Pohl, P. (1145) 279)

Bilayer lipid membrane; Ultrasound; Unstirred layer; pH profile; Microelectrode (Pohl, P. (1152) 155)

Western blot
Glycoprotein; Flocculent yeast; Cell wall protein; (*K. marxianus*) (Fernandes, P.A. (1159) 67)

Western blot analysis
Sodium-dependent phlorizin binding protein; Oligomeric structure; Phlorizin binding; Brush-border membrane; (Kidney); (Pig) (Gerardi-Laffin, C. (1151) 99)

Western blotting
Monoclonal antibody; Renal proximal tubule; Brush-border membrane; Kidney-specific antigen (Birk, H.-W. (1148) 67)

Type IV collagen; Noncollagenous domain; Aorta; High pressure liquid chromatography; Immunofluorescence (Reddy, G.K. (1157) 241)

Western transfer
Flavin-containing monooxygenase; *N,N*-Dimethylaniline *N*-oxidase; Immunoblot; Sex; Age; Trimethylamine (Schlenk, D. (1156) 103)

Wheat
Disulfide; Endoproteinase Lys-C; Glutenin (Tao, H.P. (1159) 13)

Whey
Lipocalin; Late-lactation protein; (Wallaby) (Collet, C. (1167) 219)

White matter
Axonal nerve fiber; Neurologic abnormality; Oligodendrocyte; Brain tissue section; Immunohistochemistry (Labelle, Y. (1180) 250)

Xenobiotic
Membrane active compound; General anesthetic; Boundary lipid; Kinetics; Multiple binding site kinetics (Sandermann, Jr., H. (1150) 130)

Xenobiotic metabolism
Glutathione; Glutathione *S*-transferase; Isozyme; Sex-related difference; (Human skin) (Singhal, S.S. (1163) 266)

X-linked
Recombinant DNA; Restriction fragment length polymorphism; Genetic map; Eye disorder (Shastry, B.S. (1182) 119)

X-ray absorbance
Apoferritin; Chemical modification; Iron–iron interaction; (Horse spleen) (Strange, R. (1164) 331)

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Molecular Mechanisms in Bioenergetics

edited by **Prof. Lars Ernster**

New Comprehensive Biochemistry, Volume 23

This book summarises current knowledge of the structure, function, biosynthesis and regulation of energy-transducing enzymes in mitochondria, chloroplasts and bacteria. Each of the twenty chapters is written by top experts in their field, and Professor Ernster has ensured that the book as a whole gives a well-integrated picture of the present state of knowledge of the field at its different levels and complexities.

Since the publication of ***Bioenergetics*** edited by Lars Ernster in 1984, (*New Comprehensive Biochemistry Vol. 9*) the whole field of bioenergetics has undergone a tremendous expansion. Additionally a transition from membrane bioenergetics to molecular bioenergetics has accompanied this expansion - due mainly to the spectacular progress in the field of molecular biology over the past twenty years.

Hence this volume, ***Molecular Mechanisms in Bioenergetics,*** is certain to be of interest, not only to the specialist in bio-energetics, but also to researchers working in the various fields of biophysics, biochemistry, molecular biology, genetics, cell biology and physiology. Also of interest, this volume contains an historical introduction, including a list of earlier publications relating to the history of bioenergetics.

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Hybridization with Nucleic Acid Probes

Part I: Theory and Nucleic Acid Preparation

Part II: Probe Labeling and Hybridization Techniques

by **P. Tijssen**

Laboratory Techniques in Biochemistry and Molecular Biology Volume 24

Recent breakthroughs in recombinant DNA technology and the availability of sophisticated equipment accessible to almost any laboratory, have contributed to the development and perfection of powerful hybridization tools. Recently, nucleic acid hybridization has not only become a cornerstone in molecular biology research but also a powerful supplement to other diagnostic tools.

These diagnostic methods are set out in a logical and clear two-part volume in this now famous **Laboratory Techniques** series. The volume is divided into theory and preparation (Part I), and probe labelling and hybridization techniques (Part II). Both parts are worthy additions to this series, designed for easy access of information on the laboratory bench.

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(Excluding sub-sections) Full contents list available on request. **1. Introduction.** 1.1 Terms and definitions of assay parameters. 1.2 History and development of hybridization. 1.3 Organization of this volume **2. Overview of principles of hybridization and the strategy of nucleic acid probe assays** 2.1 Probability of complementarity of nucleic acid strands 2.2 Stability of nucleic acid duplices 2.3 Kinetics 2.4 Triple helices 2.5 Consequences of theoretical considerations for assay strategies 3. **Nucleic acid purification.** 3.1 Basic materials and techniques for nucleic acid purification 3.2 Preparation of DNA suitable for cloning and Southern hybridization 3.3 Purification of RNA for cloning and Northern hybridization 3.4 Rapid isolation of nucleic acids for hybridization or amplification 4. **Production of nucleic acids serving as probes.** 4.1 Construction of recombinant DNA molecules and their cloning 4.2 *Escherichia coli* strains used in molecular cloning 4.3 Vectors used for the production of probes 4.4 Preparation of cDNA 4.5 Insertion of foreign DNA into vectors 5. **Amplification of specific nucleic acids for hybridization.** Principles and comparison of amplification systems 5.2 Set-up of a laboratory for *in vitro* nucleic acid amplification 5.3 Polymer chain reaction 5.4 Isothermal amplification system 5.5 Ligase chain reaction 5.6 Qβ-replication system 5.7 Transcription-based amplification system 6. **Synthetic oligonucleotides.** 6.1 Chemical stability of nucleic acids 6.2 Selection of sequence for synthetic oligonucleotide probes 6.3 Chemical oligonucleotide synthesis and purification 6.4 Labeling of oligonucleotides 6.5 Impact of conjugation of oligomers on hybridization properties. **Appendix 1: Oligomer-duplex stability.** A.1.1. Thermodynamic prediction of oligomer duplex stability. A.1.2. Oligomer duplex retention during washing. **Appendix 2: Kinetics-** A.2.1. Theoretical impact of complexity and length of nucleic acid on the reannealing rate constant. A.2.2. Reassociation kinetics of nucleic acid strands at equimolar concentrations. A.2.3. Hybridization kinetics A.2.4. Kinetics of competing reactions A.2.5. Hybridization with unique membrane-bound sequences A.2.6. Hybridization with related membrane-bound sequences.

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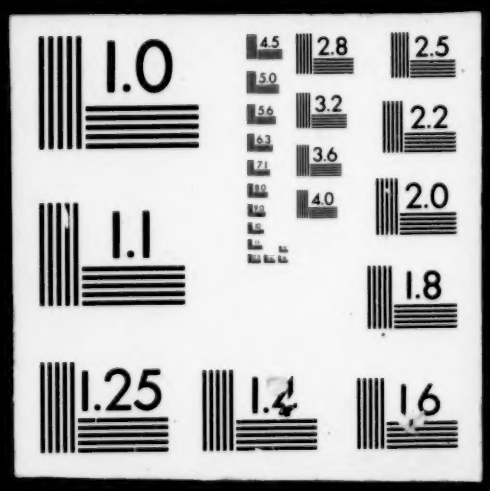
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